The Mining Journal

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 334. -Vol. XII.

LONDON: SATURDAY, JANUARY 15, 1842.

PRICE 6D.

VERY SUPERIOR EIGHTY-INCH STEAM-ENGINE, and other VALUABLE MINING MATERIALS, at WHEAL JULIA MINE, in the purish of Crowan, Corawall.—TO BE SOLD, BY AUCTION, at the aforesaid mine, by Mr. Pemberthy, on Tuesday, the .3th of January inst., and following day, at Yan outcot in the foremon, a splendid di-linch engine, if feet stroke in cylinder, and 9 fort sitte in shaft (Botun and Watt, eructed by Mr. James Sima, 1886), with 3 bollows, and 1 warmer to citto, steam and feed place, &c., fee. 1 at 12. linch ateam, whim, with dy, wheel, cast-fron cage, and bolier complete; a sa-fret water-wheel, ? ft. 6 ic. breast, to which is attached a whum, with cast-fron cage, and a crualing machine complete; capstan, with eak axis and cast-in-n speckets; shears, 196 fathoms cityh, with shearched a whum, with cast-fron capstan row; large balance box, with gosigeous, anddles, straps, &c.; 3 he rawhines, with shaft fackies; stangs, and gleron, indices, straps, &c.; 3 he rawhines, with shaft fackies; stangs, and glerongh-fron filters and beast; a winch; 2 treble nlocks; 9 cast-iron horses for boolers, fire doors, dampers, bars, &c.; a relacey-fry, comprising sundry cast and warght-fron places, a large bell and stand, 13-d about 5 for the lock and the lock heaves.

Breaver and Ripley, in Derbyshira.—TO BE SOLD, BY AUCTION, by Messery instant, at Pour o'deck in the strength of the COAL, MONSTONE, at Marchay, matter and Ryre, at the Royal Hotel, in Derby, on Thurnday, the 17th January instant, at Pour o'deck in the afternoon, the COAL, 'RONSTONE, and other MINKERALS, under 180 acres of isnut, at Marchay, near Ripley, and the fixed and tomage reats payable by the lessee. The mines consist of the most valuable scann of coal in the neighbourhood, being the Idain Soft Coal, the Botton Hard or Beaby Coal, and El Coal, and the Farnovec Coal, as also valuable mines of ironastone and not day. The three first mentioned hods of coal are leased for a long term at a lead annual rest of side, and a tomage reat upon the quantity gotten beyond rittle neighbourhood being nearly extraured; insures the combined of the market, of an exensive sair at good prices. The coaliery is seven miles from Derby, and allway to the borby Canal.

For further particulars applications may be made to Mr. Bushers and a face of the land of the substance of the

TALUABLE FREEHOLD ESTATES AND COAL MINES. TALUABLE FREEHOLD ESTATES AND COAL MINES, at Deaby and Marchay, within eight miles of the town of Barby.—TO SE SLD, BY AUCTION, by Messra Breary and Syro, at the Soyal Bote, in Derby, I Thursday, the 17th Jan. ary least, at Four o'eleck in the afternoon result to the Accelent HOUSE, at Donby, with extensive and well-arranged farming buildings, several cottages for labourers, and a compact and useful form, in a bestar of cultivation, eccunical by Mr. Samuel Wouley, and containing the acres. Let 2. Another FARM, in Demby, adjoining to lot one, occupied by Mr. Samuel hite, and containing the see.

Let 3. The COAL, IRONSTONE, and other MINERALS, under 180 acres of land, Marchay, near Ripley, and the fixed and formage routs payable by the lease.

Let 4. An excellent FARM, at Marchay (past of the 180 acres mentioned in lot eve), in the occupation of Mr. John Woolley, tying in a ring sence, and containing because

here), is the occupation of rich and very useful LAND, at Ripley, with a cottage and garden, also occupied by Mr. John Wondley, said constaining 10a, 'wr. 29 p. Let 6. A small PIECE of LAND, at Heanor, from leg the tampite-road from feature to Loscoe, containing 17. Fig., now occupied by James Nilson. The tenants will show the lands in their occupation, and farther particulars may a chiained on application to Mr. Barber, solicitor, Derby; to Mr. John Bromby, and agent, Derby; or to the auctioneers.

O BE SOLD, BY PRIVATE CONTRACT-viz., One 100th

NONDENSING STEAM-ENGINE FOR SALE.—A 20-horse

TO RECEIVE ETT., MILLWRIGHTS, FOUNDERS, SMITHS, AND OTHERS, TO BE DISPOSED OF, an old-established ENGINEER'S, MILLWRIGHT'S, and FOUNDER'S CONCERN the present proprietie rangifount the managifecturing department, situated to London. The pressure and are arranged for a most extensive business, and have been overted during hast twenty five roops, at a considerable entity, best, from the above range, will disposed of upon externally five-market terms. The promises will be let on lease, it the managinetry had tuning disposed of at a valuation.—Apply, for participant to be greate, Etc., 51, Lincoln's line dates.

TO ENGINEERA, FOUNDERA, MACHINE MAKERS, STEAM SHIP BULDERS,
AND OTHERS.

FOR SALE, an extensive and valuable MANUFACTORY, for
the one-structure of STEAM ENGINES, SOLERS, GENERAL MACHINERY,
CHAIN CASLES, ANCHOR, FOUNDEY GOODS, FORGED GOODS, and GE.
MERAL SLACKSHITH WORK, well-known to the FOUNDER IRON. WORKS,
abendure. These were sound small four country flow, served of received the sale of 5 per cont. See the fallowed on payments in account.

DUKE of CORNWALL'S HARBOUR and LAUNCESTON
MERAL SLACKSHITH WORK, well-known to the FOUNDER IRON. WORKS,
abendure. These were sound country flow account of received in the sale of Parliament. The country flow accountry flow, country flow accountry flows, country flow accountry flows, country flows accountry flows accou

POSTPONEMENT OF THE SALE OF TIN.—The Governor SIMS'S IMPROVED STEAM-ENGINE.—Mu. JAMES SIM and Company of Copper Misers in Engined perely give notice, that their

Gove nor and Company of Copper Miners in England hereby give notine, that they will a fa.k., on Toursday, the 27th of January now next ensuing, at their outcom, in Oid Brondstreet, ONE THOU's 189 TONS or MRITISH (BRAIN, REFINED, and COMMON TIN, in blocks, legots, and bars, in barrein, is lots of not less than two tons, deliverable in London, Liverpoot, Newport, and Bristol, or from their smelting works in Cornwall. Catalogues will be issued in due time, convining particulars and conditions of Sair, which will be delivered either at this office, or by the company's brokers, Mowers, Short and Mahony, No. 1, Newman's—court, Cornhill.

or of the Governor and Company of Copper Miners in England, Old Broad-street, London, Dec. 28.

BRITISH IRON COMPANY.—Notice is hereby given, that the FUURTH INSTALMENT of the principal of the PROMISSORY NOTES issued by the British Iron Company in the year 80°, and the REVENTH HALF-YEAR'S INTEREST upon them, will be sold at the office of the company, No. 3, New Broad-street, on Thursday, the 18th inst., and on every subsequent Monday, Wednesday, and Friday, between the hours of Tweive and Four o'chock. The notes, with a list of them, signed by the hoiders, must be left for examination one dear day previously to application for payment.

CONSOLIDATED COPPER MINES OF COBRE ASSO.

GREAT WHEAL CHARLOTTE MINING ASSOCIATION.

Notice is bereby given, that a SPECIAL GENERAL MEETING of the shareholders will be bels at the George and Valture Tavers, Cornibli, on Monday, the 24th January, at One o'clock previously, for the purpose of taking into consideration the state of the mine, and the expediency of raising further capital for the working of the same.

INING COMPANY OF IRELAND.—The board of director of the Mining Company of Ireland barely give notice, that a DIVIDEND for the half-year ending left Bec. hast, at the rate of FIFTREN PER CENT, ser amount upon the company's deposited expital stock, will be payable, on and after the left representation of the company's office. No.57, Lower Omnon-quay, Dublie. The books for transfer will be closed from the lifth lost, to the let of Pubruary. By order, RICHARD PURDY,

PRINCE ALBERT MINE, Northmolton, Devon.—Notice is hereby given, that all persons indebted to lift. Daniel skewes, late an adventurer is this mires, are requested forthwile to pay the amount to Mesora. Robins and Sice; and all persons having any chims on the said Daniel Skewes, as such adventurer or otherwise, previously to the 27th June, 1841 (at which time he disposed of all bis interest in the said mine), are requested bronediately to send the particulars thereof to the said Mesors. Robins and Son, that the same may be examined and settled.

BORINS and SON,

Balletters, Tavishock, D. dec.

REETH CONSOLIDATED MINING COMPANY.—SIXTH CALL.—The directors of the Roeth Consolidated Missing Company hereby give notice, that they have this day made a CALL of SEVEN SHILLINGS and SEVENCE per share upon the shares of this company, and the proprietors of shares therein are requested to pay the amount, on or before the 21st of February near, at the bank of Mesars. William Williams Brown, Charles Barr, and Co., bankera, Leeds.

By order of the directors, JOHN SLACKBURN, Sec. Company's office, 24, Albion street, Leeds, Dec. 29.

BRISTOL AND EXETER RAILWAY.—TENDERS FOR

BRISTOL AND EXETER RAILWAY.—CALL OF TEN
POLINDS PER SHARE—being the firework invisionent, and making, with
former coin, the sum of all per share.—The directions of this company, under the
proceinions of the Act of locompounding, berefing jets entires, that the properties of
shares are required to jusy, on or before the first of January losst, at any of the san
dermanticument heads, the sum of gr in means of their resourcity observa-viz.

EUROPEAN GAS COMPANY,—Notice is horsely given, that as EXTRACRESSARY GENERAL MESTING of the proprietors will be being a Phenology, the 27th foot, at the long of Two o'clock precisely, at the office of the tomorous, Jib, Financey through London.

By order of the board,

L. B. GREAY

An encine of 10 feet stroke, equal to the power of an section cylinder. Builton and Watt single power pumping engine, with bolives, and every metallic part complete.

Equal to the power of a 7s-inch cylinder, 1st feet stroke, with ballers,

A NOREW SMITH'S PATENT WIRE ROPES, for sta

and Co., 12, Goree Pl

COAL AND INON MENU

MISSIONERS, as to the COAL and HOR MINES in the PO-size and regulations for working the name, &c.

By THOMAS SOPWITH, F.H.E., Commissioner,
John Woulo, 9, High Ho flows, of whose size may be had a series
to be a few Windows by 20 lashes, of the Dean Proof Missi

PRACTICAL TREATISE ON THE MANUFACTURE OF

A COMPLETE THEORETICAL AND PRACTICAL TREATISE ON THE MANCFACTURE OF TRON,

LAW INTELLIGENCE.

DISPUTED RIGHT TO RENEWAL OF LEASE JUDGMENT.

DISPUTED RIGHT TO RENEWAL OF LEASE—JUDGMENT.

VICE-PHARMELONS DOURS—13. 31.

WALKER C. JEFFANYS.—In 1797 John Read, being the owner of certain tenements and particles and particles of arable, encodow, and pasture inad, consisting of about forty-seven serves, elimate at Thibbington, in the county of Stafford, which was outhout to a meetinger to Arasham Cacker, much being also aware of the minor and minerais under the came land, was desiring of working cook mines, for the beside of Simself and partners (W. Bangka and J. Danbarraq), and for that purpose. Cacker joined with him (Head) in coursying the premises to John Carpenter, in ice, to enable Carpenter to great a lease of the same premises to Read and his partners. The issue was conveniently granted, and was for a term of furty-two years, reserving a rest for the earliese and a rayship for the minerals, and it contained a covenant that the leason would great a renewed lease of the premises for a term of twenty-one years, to commence from the expiration of the first lease. The transfers, used in his right to the mineral in the right to the surface in older parties; and the course of them the right to the surface became exacted in some parties, and the right to the miner in other parties; and the right to the miner in other parties; and the right to the miner in other parties; and the right to the miner in other parties; and the right to the miner in other parties; and the right to the miner in other parties; and the right on the solicitary of the defendant for a new lease for the term of twenty-one years, they being entitled to the benefit of the covenants in the original lease. The defendant refused to make a further lease, and the premated of the surface, and had early of the paintiffs, the rown in the original lease. The defendant of an armount of a cate, and the premated of the versa.

His Howeve this day delivered judgment, and after stating the said, that two grounds had been invisited upon as establishing the plantiff, and is made and the parties of the d

INFRINGEMENT OF PATENT RIGHT.

INPILINGEMENT OF PATENT RIGHT.

WILLOW R. TINDALL.—Mr. PEMBRAYON (and with him Mr. Rotch and Mr. Hubbach) moved to commit the defendant, William Tondall, for breach of the injunction granted last November, for restraining him from using the invention of the plaintiff in the manufacture of candies from escent and the Nr. Tymens and Mr. Wienam, confru, said there had been no breach of the injunction, either directly or indirectly. The defendant had observed the order of the court, and the candies which he manufactured did not interfere with it. He communicated by letter to the plaintiffs on the 20th of December beat, and the manufact in which he made his candies from the oil of the court. He would undertake to keep an account of what he made:

Lord Landdala.—The question was, whether what the defendant had done was a breach of the injunction. He might have made a valuable discovery entitling him to a patent, but it might be necessary for him to disclose it to the court.

Mr. Permonnyone—The defendant had reduced the cocon and oil into the component parts of stearing and claims, and in whatever manner that was done it was a breach of the hijanction. He hoped this fourt would order the defendant to file his affidavits immediately.

Land Landdala to file his affidavits immediately.

Land Landdala to file his affidavits immediately.

Land Landdala to defendant in come on upon Thursday week, next motion day.

SWANSEA COAL COMPANY-WERNFIELD COLLIERY.

swanser could be accorded to the country of the plaintiff a collicery of Landerev they being only represented the Country of t

ANGLO-AMERICAN GOLD MINING ASSOCIATION.

HARRISON D. HEATTHINK. The ROLLETTON GRADULA mes. which was bard before Lord Chief Justice Threat at the la-HARRENS 6. Heaveness.—The Statepers Concerns to second in this case, which was taked before Lord Chief Justice Thriefs at the last Califolism. History, and represent in the Justice Justice of States, December 15, for a rais to show easen why the vertice about in the december 15, for a rais to show easen why the vertice about in the december is the definition of a raise to show easen why the vertice about in the december is the december of the definition of a raise to show easen why the vertice about in the december of the definition of a raise was the december of the company, and layers, again, librariell, one of the discretize and treatment with the december of the company, and layers, again, librariell, one of the december of the company, that the plaintiffs should be informatified for the december of the company, that the plaintiffs should be informatified for the december of the company, that the plaintiffs should be informatified for the december of the company, that the plaintiffs should be informatified for the december of the company, that the plaintiffs should be informatified for the december of the company, that the plaintiffs should be incomed and the december of the company, that the plaintiffs should be incomed to the december of the company being a work that the december process at a marriage of the tribe. The might want that the bud them provided that the was the the bud them provided that the was the tribe of Lorentze, therefore, now continued that the vertice of the continued that the large of the tribe of Lorentze, the discretize and the continued that the lorentze that december the continued that the lorentze the continued that the lorentze t

BRITISH IRON COMPANY—ACTION FOR CALLS.

COURT OF EXHBRIGHE.—JAN. 12.

Berte v. Moore.—Mr. Keller applied to the court, with the permission of Hamos Alderson, before when the one find hem at chambers, for leave to add cartain plans. The plaintiff was the officer-entitled to see fur the British Iron Company, and the action was brought for the payment of calls. Although the company had an Act of Parliament, yet its constitution was entirely founded on certain Deeds of Settlement. By the first deed a majority of the directors were empowered, under extain provises and within certain limits, to alter the constitution of the campany. In the carecise of this power a majority of the directors divertors form 100d, each to 50d. The defendant bought shares after this alteration took place; and, as the directors had no right to make a call beyond the assemble of the share, he approach that 50d. was the largest sum which he would be called upon to pay. Subsequently, however, the directors again altered the constitution of the company, and gave it the original form, by which the plaintiff contended that the defendant because liable for 100d, per share. The defendant wished to put on the record, in addition to certain pleas that were allowed, a pica deeping the pypyric torship of those who transferred their chares to him, and several other pleas, to the consolidation of which into one he would not object if the other side would wave the objection of duplicity, all impraching the legality of the meetings and the relocutions by which the old constitution of the company had been restored. Mr. Baron Alderson had ordered these pleas to be struck out, as he had understood that Mr. Justice Wightman had acted in a like meanner in moster case involving the same question; but at the same time had intimated a wish that the opinion of the full court should be taken.

Lord Animorr.—Take a rule to show cause.

ALLEGED PRAUDULENT IMITATION OF "BRAND."

ALLEGED FRAUDULENT IMITATION OF "BRAND,"

COURT OF COMMON PLRAS—JAN. 13.

CRAWARAY v. THOMPSON AND OTHERA.—Mr Serjeant SHEE moves
in this case for a rule to show canse why the verdiet which had been founfor the defendants should not be set aside, and a new strial had, upon the
ground of misdirection, or of the verdiet being against evidence. The cause
was bried before Lord Chief Justice Thiold, at the last Guildhall sittings,
and was reported fully in the Mining Journal, of Saturday, Dec. 25; and it
will, therefore, probably be recollected that the action was brought for the
frandulent imitation of the mark on the iron masufactured by the plaintiff
The Lord Chief Justice left it to the jury to say whether there was, in the
first place, any lemination at all; and, secondly, whether the estamp on the iron
made by the defendants was affixed for the purpose of getting possession of
the market, or in the isnocent execution of a foreign order. Of this direction the learned Serjeaut complained, consending that the conduct of the defendants, in continuing to use the mark objected to, after notice from the
plaint that it was an initiation of the stamp on his own iron, was evidence
of a fraud in law.—The Courar, after some little deliberation, granted the
rule.

LIABILITY OF SHAREHOLDERS,

LIABILITY OF SHAREHOLDEES.

GOURT OF EXCHEQUER—JAN. 13.

HUTCHINSON v. DURER.—Mr. KELLY moved for a rule calling on the plaintiff to show same why a writ of serier forces, which had been issued against two gentlemen of the names of Childers and Chance, should not be set aside, and they be admitted to plend to and defend this action. The facts were the following:—The Agricultural and Commercial Bank of Ireland, which had had some transactions with a company called the St. George's Stram-packet Company, certain individuals belonging to both companies, was dissolved on the 19th of October, 1840. On the 14th of December, 1840, the defendant Dukes, who had been an officer of the bank, and the person to be used by those having cause of action against it, gave a note for 5001, in the name of the bank to the plaintiff, who was an officer of the St. George's Steam-packet Company, and was induced to come over here to receive process, and to let judgment go by default, and final judgment be obtained in the specifical possible manner. A writ of srive factar was then sued out against his cliests as sharcholders in the bank, who instantly sent an agent to Dublin, and ultimately discovered the facts which he had detailed. These facts, however, though they would have been an answer to the original action, of which his cliest have unthing until it had terminated and the scive facts had been issued, were no answer to the reive factor. Under these circumstances he trusted that their lordships would be disposed to assist them.

Lord Annorm—Take a rale to show cause.

had been issued, were no answer to the seire factor. Under these circumstances he treated that their lordships would be disposed to assist them.

Lord Annorm—Take a rule to show cause.

Baitway Derentynans.—(From a Correspondent.)—A recent decision in the Court of Queen's Bench (reported in the Mining Journal of the 4th December last), against a holder of a bond of the 8t. Helen's Italiway Company, who had taken measures to obtain payment by stopping the toils, has led, it appears, to considerable misapprehension on the subject of debentures in general. It is evident from the words of the decision of the court, that the St. Helen's Railway Act does not give the prowet to grant mortgages; but the Great Western and the Bristol and Easter Railway Acts of Incorporation expressly constitute the debentures mortages of the freehold property of the line, its rents, rates, and toils. Every Bristol and Easter debenture, therefore, is a done fide mortgage, and takes precedence of all other liabilities of the company, differing secentially from ions meres, which are simple contract lebts.

Davon and Coanwass. Raitway.—A county meeting was held in the Shireshall, Bodimin, on Wednesday week, for the purpose of receiving the report of the committee, appointed two years ago, to inquire into the practicability of obtaining a railway through the county of Cornwall. After this meeting had been addressed by several infunctial gentiamen, it was resolved that the reports be adopted, and that the committee be re-appointed, and requested to device some means, with the assistance of the county generally, to Ruiddate the outstanding claims. The interest of the meeting was adoly affected by the late melancholy demise of Lard Palmonth, and the properties of the proposed undertaking.

New Arranava for a rank for a many and and carrently marks on a sheet of paper, fixed on a particularity constructed drawing-board, the successful corrying out of the proposed undertaking.

Annormal of the land it has passed over, on a small scale—thus show i

TRIAL OF THE MACHINE FOR RAISING AND LOWERING MINERS AT TRESAVEAN MINE.

Welsars by the Falssouth Packet, that the first trial of this machine took place of Welcards week, in the presence of a large gurty assembled to witness the experiment—amongst others, Sir C. Lemen, Messus, C. Fox, Enys, G. C. Fox, Dr. Barham, Mr. Robert Bire, the Ravds. Canon Regyers, Pannett, Philipotts, Hockin, &c., &c., there were also a great many usine captains present. At two o'clock, the machine, which has been constructed to the depth of twenty-seves fathems, was put into action, and lights being arranged in the shaft, after Mr. Laum the constructor, and Capt, Jennisgs, had descended, and ascended by ki, several grafilemen tried its facilities. The Rev. Canon Rogers, Mr. C. Fox, and Mr. R. Hunt, mode their descent to the bottom, and ascended again severally in the space of four minutes and a half, without the slightest fatigue, or difficulty of any kind. Sir Charles Lemon and many other gentlemen descended and ascended a few fathems, all of whom expressed their admiration at the simplicity exhibited in the construction of the machine, and shelr satisfaction in its mode of operation. The miners themselves are much delighted with the plan, and expressed their confidence in its being successfully completed to the bottom of the mine (200 fathoms), when its good effects will be felt in saving them the fittings of climbing by the ladders from that great depth.

This experiment may be looked upon as a most satisfactory one, and quite declives as to the practicability of this principle. To those who are not exquainted with the plan, a short description of the machine may not prove uninteresting; two roads are connected by cranks with the moving power, which is in this instance a water-wheel; these roads work with a reciprocating method, and the product of the surface, or lowered to the bottom. We would direct the attention of the ingenium construction in platforms are affected with the form and the machine, which is, that a contrivance sho

EXPLOSIONS IN COAL-PITS.

EXPLOSIONS IN COAL-PITS.

The following article was written with reference to the recent terrible explosion in a coal-pit near Barnaies:—The frequent occurrence of accidents by the explosion of what is familiarly termed "fre-damp" in coal-pits, a casualty invariably attended by a fearful ascrifice of life, and mutitations of an irremeliable kind, renders investigation a duty of no ordinary importance—the cause originating in a spontaneous disengagement of explosive goas from the coal, during the process of working, is, therefore, beyond the power of science to control; but, it as certainly establishes the fact, that necidents of this nature must continue to appal us in the recital, with something very near to periodical regularity. We take up the subject, desiring to place investigation upon the same footing which other incidental perils receive, and to attract towards it the same views, more particularly on the part of coroners' juries, in their especial province of inquiry as to the best means of prevention, and of applying censure where such may have been neglected—in gases of railroad accidents, explosions in steam-hoats, and in every instance where life is exposed to danger from the action of machinery, these salutary privileges of the coroners's jury have been exercised greatly to public advantage; Ithas happened only in mining ensualties, where life has suddenly closed upon many victims, that the uniform verolict has been "accidental death," thus perpetuanting an impression that no means can successfully be interposed to prevent the accumulation of inflormatory gases by which they are caused. Now, in looking closely at the subject, we incline to an opinion that the reliance placed upon the afety-lamp is the proximate cause of the greatest number of accidents which have occurred since it came into use. Two reasons may be alleged in support of this conclusion; the first, that this lamp, although really specific against explosion from a highly charged atnorphere, ceases to be so in the hands of the unaitifu

remember two lines among the splendid poetry of a contemporary of the great chemist, in which the launp is introduced, as—

"Sir Humphrey Davy's lanters, by which coals
Are safely mined for—is the way he mentions,"
clearly implying the danger of any abandonment of caution in situations where its use because necessary; but it is very questionable whether explosiona are less frequent, or can it he expected unser circumstances which are unaliterable, so long as the present existem of working mines continues.

It happens in other unions that stagmant air, although not of the inflammable kind, impedes the working, being with difficulty removed by the slow process of the air-pump; while deep workings, whatever may be the description of mine, are rendered unwholesome from the want of the circulation of fresh air essential to the vigour of the workmen. Instances of interruption to mining operations are frequent in Counwall, where the depth is considerable; but we have babely heard of the erretion of a machine, extremely simple and inexpensive in construction, which has been manufactured at the Pavillon Iron Works, London, and is found fully to answer all the purposes of weathlation. It has been applied at the Tamer Silver and Lead Mines, under the direction of P. N. Johnson, Eq., the what being 122 fathous in depth, and the level 400 fathous; the gallery under working, then unapproachable from mephitic air, was cleared, and a current of fresh air established in twenty minutes. Thus much of the practicability of vestilating deep union; and it would appear that precisely the same facility entity for exhausting coal mines of explusive air, or "fire-damp," said of ascuring the life and health of the whose. It will, therefore, surely be deemed lazz-quashle in the propersion on desired and of the course of humanity be not disregarded on the part of complete and effective. Juries will also henceforth require that the commons duties of humanity be not disregarded on the part of complete.

large bodies of the most laborious among our population.—Whitche von Hepsid.

Co.s. Minna.—Few persons, except those actually engaged in coal minos, know any thing of the interior of a colliery, or the usual method of working coal, the following sketch may, therefore, prove interesting to many of our residers:—The entrance is guararily by means of a deep shaft, but sometimes by us adit or horizontal passage. As soon as the shaft is rank down to the seam of cool, a long level, or gallery, is excernted, running the whole length of the property under which the seam is intended to be worked; I from this level nomerous passages, termed "boys," irredriven in the coal at different angles, varying with the cleat of the coal, but, in Lamonshire, often at right angles to it; these, seeseding to the inclination of the strata, are so many different inclined planes. This is the state of the mine before the pillare are worked out, and parallel gallerins, with their respective bays, are formed on the rise and dip of the coal. The levels are generally waggen-ways, of about fire feet wide and five feet high. They, however, vary much in height with the thickness of the mounts, the workable once of which in Lamonshire wary from fourteen inches to three yards in thickness, and the nature of the strain forming the roof or tap of the coal. The coals, when hewn or blasted, are pushed down the bays by founder, and efforwards generally conveyed along the waggen-ways in corver, which are placed on usual waggens that run on iron nails, and, when the height of the levels allow it, are drawn by positive or donkeys; these corves are square bases, such capable of containing about there ext, of onel, herring their lower parts shed with iron, like a shelp. Himse (who are dreamed in the fanced fronks und by minera where the onel is obtained.—From a corresponder.

Cuas Taam.—The coals coaried remotive from the river Tyne, it is said, exceed 2,500,000 teen, and the yearginy unpated to foreign parts

pares sell o

hean. given piano this !

teright drain water lastes and as serve frient

Coax Taxes.—The coals consist reasons from the river Type, it is said, exceed 2,000,000 toos, and the quantity expected to firetign parts exceeds 1,500,000 tons exceeds.

LECTURES ON CIVIL ENGINEERING, WITH PRACTICAL ILLUSTRATIONS.

BY PROPESSOR VIGNOLES, C.V.

On Monday, the 10th inst., Professor Vignoles delivered his eighth lecture "On Civil Engineering." This being intended as a practical illustration of some interesting and important points, the lecture was delivered on the works of the rallways situated at, or near, Wormwood Scrubbs, in place of being given, as usual, in the lecture room of University College.

The first point to which Mr. Vignoles directed the attention of the class was to the atmospheric railway, or, rather, a portion of railway laid down on that principle for experimental purposes, upon the line belonging to the West London Railway Company. The length of this experimental line is half a mile, and, according to the Professor's statement, it fully answered the purpose, and he, at some length, and with great ingenity, explained the principles of the system. The iron tube first attracted attention; it is nine inches in diameter, with a grooved slit along the upper surface, which is closed by in diameter, with a grooved slif along the upper surface, which is closed by mraus of a valve of leather, atrengthened by plates of iron, flat on the outside, and forming the segment of a circle on the inside, so as to complete the diameter of the tube when it is shut; at the edge of the valve is a composi-tion of bees' wax sod tallow, which renders the tube air tight. Next was examined the corriage, to which was attached a piston, fitting into the tube, and a very ingenious contrivence was shown, by which the valve was first opened and afterwards closed down, immediately after the piston had passed, however great the velocity of the carriage. The impossibility of procuring a perfect vacuum had long been assigned as the great objection to this prin-ciple of producing locomotion; but Professor Vignoles showed that a good working half vacuum was, by the simple centrivance he had explained, quite attainable and sufficient for practical purposes. The engine and air-pump were next accerally examined and explained, and the lecturer then gave some tal railway; he stated that the air from the half mile of tube could be extracted in about one minute, while it would take nearly eight minutes for the leakage of the valve and air-tube to admit the air to fill the tube. In conse of the imperfections in the present line, which had been merely laid down for experiment, the leakage was very much more considerable than when a perfect line should be formed for service, and the formation of a railway on pheric principle would not exceed, perhaps, one-third of the cost of many of the great lines hitherto contracted for, as it would do away with much of the cutting and embankment, the slips of which had recently been so some and dangerous, by the trains being able, on this method, to ascend considerable acclivities. The present experimental line had a rise of about one foot in 110, and he had gone along at the rate of forty five miles er, notwithstanding the imperfections of the machinery and the wretched state of the line; he pointed out that it would be practicably impossible for a locomotive to travel upon such a line, as it would be off the rails immediately, in consequence of their being so uneven and loose; yet he had travalied at the rate he before mentioned, with perfect case and safety, and, furthermore, the extreme simplicity of the machinery rendered it very unlikely to get out of order. A few weeks back the line was required suddenly for some experiment, and, although the tube was half full of ice, in less than half an hour every thing was in readiness, and the trial was very satisfactory The power obtained by the present small tube is 1760 lbs., with an atmos pheric pressure of about 8 lbs. per inch only. The engine employed to work the air-pump is sixteen or eighteen horse-power, and the economy of station-ary over locomotive power was admitted by everybody. He concluded his remarks upon this interesting, and what promises to be most useful, application of the power of atmospheric pressure, by detailing, at some length, the minutize of the saving that would be effected by its general adoption, and stating that two miles were to be laid down upon the Dublin and Kingstown Railway, to try the experiment upon a larger scale, with a tube fifteen inches in diameter, and more perfect apparatus. The Professor then, as the party walked along the line, pointed out to the class various slips that had taken place, some of which were slight and others extensive; one part in particular ituated between the Great Western and London and Birmingham Railways (which are here within a quarter of a mile of each other), attracted general attention, the whole, for nearly 100 yards, being a perfect chaos. A remarkable instance of a fullure of a retaining wall here presented itself, it having, for about forty-five yards, been actually pushed forward off the foundation, to a distance of eight or ten feet, the wall still standing, which appeared to be about four feet thick, strongly built of brick and enserete, and strengthened with bands of iron and wood. The causes of this destruction were explained by Mr. Vignoics as arising from the lodgment of water, which, having no outlet, had settled the earth against the back of the retaining wall, turning the clay into med, and, by the great additional weight, forcing it into the position in which it now appears. If the water had been cut off in time this would not have happened, and that water was the occasion of this necideat seemed very apparent. The lecturer then pointed out the manner of supperting retaining walls. Several portions of the London and Birmingham and Great Western Rallways were then examined, and much valuable information was given on the various contrivances made use of by these com-panies, and he concluded by appointing the class to meet on the Creydon and Brighton Railways the next morning, to proceed to the great slip sear New

"On Civil Engineering," and, according to appointment, it was delivered at the great slip near New Crose, on the Croydon and Brighton Railways. The motive of this visit was to explain to the class the reason of, and to point out the means which might have been taken to have prevented the great elip which occurred there recently. On leaving the train, the Professor led the way to the spot, which is situated about half a mile from New Cross. The length of the slip is very considerable, the depth of the cutting very great, and the mass of earth that has slipped down from the top of the bank is of an imposing appearance. The appearance of the slip is an usual—perpendicular at the top for some depth, and then building out near the centre; a great number of inhousess are employed in shifting the immense quantity of earth to be removed, in consequence of the slip, which is estimated at many thousands of yards. In the meantime, a convenient covered welk has been made for the passengers to pass from one train to another. On both sides of this cetting, for come distance along the line, slips have taken place, but on the left-hand side going from London, they are of but little importance, comslip, and it was obvious that the great evil—water—bad been gradually insirenting, literif into the bank a long time before. In another part of the cutting, he pointed out a place where a slip was expected to take place in the slope, but he disappeaved of what had been done by way of precaution, and explained that any operation of making cuts or vertical holes in the slopes, which would admit water, ought to be avoided by all means to the engineer's power, instead of heing encouraged; the apertures should be driven in horizontally, and breashwood drains introduced, or a kind of hurdle or fuscious, which would act as a drain, and be extremely effications; on the slopes, as he thought them weres than useless, being more likely to admit the water than to drain it off. He alluded to a curious circumstance which had occurred a little higher up the line, where the railroud was made in what used to be the bed of the canal. It appeared that there was a spring, and the water, instead of finding its way out of the slopes, actually raised up the the water, instead of finding its way out of the slopes, actually raised up the rails. Several other points of interest were then examined, and the lectner exactuded by stating that he should give one more lecture at the college, which would be a summary of, and complete the, first course.—The next course will begin about the middle of February, with an introductory and public because on internal communications. public lecture on internal communications.

ON THE EVAPORATION AND INCRUSTATION IN BOILERS.

which would be a summary of, and complete the, first, course.—The maxicourse with legis about the middle of Pelversary, with an introductory and
public hecture on internal communications.

ON THE EVAPORATION AND INCRUSTATION IN BOILERS.

(Rinad by the author at the Renal Victoria Galvay, Manchester, on Thurstay,
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On the last occasion of solversing this institution, I explained the causes
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NOTICES TO CORRESPONDENTS.

awness awn finteuron Raiswar.—We beg to draw the especial alleption of the shareholders to a letter, inserted in another column, as co-otaining matter deserving the most careful investigation on their assembling at the meeting on Thursday next,—The reports of the lectures by Mr. Vignoise should be read by all interested in railway undertakings.

ad interested in raiway undertakings.

Interested Monga, — B. R. D. is informed that we have not lost eight of the companies formed for working mines in the county Wicklow, nor other "named loss in connected with that district. We regret, however, to learn that the contempiated policis meeting to have been held in the country, instead of "coming on," as we were arrived, has "grame off "without even a report from the provisional committee. Better provision should have been made in the early stages, as a failure of this kind should ever be avoided. We should hope that party spirit had no influence.

had no influence.

Wone Pavino. ... We have received a communication from Mr. Parkin (in reference to the assertion of Mr. Les hierems, that cortain statements contained in the latter of Mr. Parkin insertion in the Journal of the 18th Dec. ... were contrary to fact, in which he retorates his declaration. "That Mr. fiterons was castin- of mot to deliver a partial lecture on wood paving at the flusthwark Literary Institution," for, and asserts that he can address proof of its correctness. Mr. Parkin feets grizved that we should have declined inserting furthe, 'corresponducion on this subject, but, on consideration, we are sure is will agree with us, that, when all scientific consideration of the various plans admitted is merged to the packin, the disputants, or in the Journal.

on Mine Surveying, in our next.

shall be happy to hear from "A Miner," on the Power and Construction of after-wheels, fully agreeing with him that a discussion on the subject must prove infinite advantage to the miner.

H.'s" complaints respecting unconstance curebact on the part of the last the Pulphechnic lastifulium, on Thurestay has, shall be impulsed into some cause for such, be on the least—from remarks a single formination of what should have been an interesting incline.

To are comparised in postpone the paper on the Combination of Coal and the Pre-vention of Species, by C. W. Williams, Enq., with the report of Professor Stromb space-side, footil one next, the second space of the Professor Stromb space of the Professor Stromb S. J. C. Liverpool.— Sallways were as one in Northumberland in 1716.

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THE MINING JOURNAL. Mailmap and Commercial Carette.

LONDON, JANUARY 13, 1842

We have before us the annual tabular statement compiled by Mr. Rectaums, of George yard, giving the official returns of the imports and expetts of metals for the year 1841, with the stocks on hand, and prices during the like period—an abstract of which will be given in our next; while our object will be, in the present stricks, to take a brief review of the metal trade for the past twelve months, as exemplified by the tabular matter to which our attention is directed. Without entering into minute details, we shall content correctes, as regards our expects, with observing on the comparative increase and decrease for the year 1840 and that last past—the increase being for the year 1841 over that of the proceeding as follows:—Iron, Pt.711 time; strel, 1445 tona; cake copper, 113 hones; in, 1866 hone; tim plates, 25,736 mones; quick-adver, 186,339 lbn.; while the decrease in sheet supper, nails, for, bas been \$126 tona; in break, 601 tona; and in speller, 1650 tona. It will be well, and, indeed, sufficient for our present purpose, to show where the increase or decrease has mainly manifested itself, adding therein such observations as may be considered pertinent to the object in view, and as explanatory of the causes to which such alternatums are attributable.

In the privale of iron, as already attated an increase of metals alternatums are attributable.

heaithy state, for, on reference to the price of bar-iron in February, we find it quoted at 84. Sa per ton, and in December at 64. 15a.; the fact being, that the "make" was more than equal to the demand, and that sacrifices have been made to effect sales abroad or at home. In the exportation of steel the increase is 1445 tons, and in copper 113 tons; the latter is of little moment, comparatively, as the foreign markets are principally supplied by the ores of Cuba and Chill, which are imported into this country for the purpose of being smelted, and subsequently (with an admisture of our poorer ores) exported in quantities equal to the assumed metallic produce of the ores so imported. In copper, in aheets and nails, it will be observed there is a decrease of one-sixth—the diminution between the two years being 1126 tons, while in tin, in blocks and bars, the the two years being 1126 tons, while in tin, in blocks and bars, the comparative quantities exported were, in 1840, 1879 tons, and that for 1841, 3145 tons, or an increase of 1266 tons, and in tin plates an increase of 25,758 boxes—the several exports for the years 1840 an increase of 25,758 boxes—the several exports for the years 1840 and 1841 being 191,216 and 216,974 boxes. Lead has decreased to a trifling extent; and, again, a considerable decrease has manifested itself in spelter—the exports for the past twelve months little more than exceeding 50 per cent. of those of the preceding year; the quantities being, for 1840, 3471 tons, and, for 1841, 1821 tons—leaving a decrease of 1650 tens. This diminution in our exports of spelter, with an advancing market (the price having mounted from 231, 10s, in bond, in January last, to 401, in Dec.), would, if commared with the increase in the exports of iron, and the reduction compared with the increase in the exports of iron, and the reduction which has taken place in the price of that metal, appear perfectly anomalous, were there not peculiar causes which it is necessary to take into consideration ere we can arrive at any satisfactory conclusions. In the one case we import an article of foreign production, the scarcity of which, with the effect of speculation, raises the price nearly 100 per cent.; the demand in this market, from its increasing consumption daily increasing—and, further, our exports to India during the past twelve months not being one-half the quantity annually consumed, arising from stock in hand, which is now known to be worked up, or nearly so and the advanced prices wn to be worked up, or nearly so, and the advanced prices while, with iron, we have a home manufacture, made to an extent beyond a wholesome demand, and hence the reduction in price, although our exports are increased; but the subject is so fertile, that we cannot indulge in further observations, but must confine ourselves to figures. In quicksilver the increase has been 606,352 lbs., as being the difference between 2,205,939 lbs. and 2,812,291 lbs.

2,812,291 ibs.

We now proceed to note the quantities of foreign metals upon which duty has been paid for home consumption during the past year, as compared with the years 1839 and 1840. In iron, there is an increase of 5554 tons on 1840, and a decrease of 835 tons on that of the preceding year. As regards speiter, the quantities for the respective years, are as follow:—1839, 4760 tons; 1840, 4625 tons; and, for 1841, 3503 tons—showing a deficit of 1122 tons in the past twelve months, or nearly 25 per cent. This, we have already explained, is attributable to the falling off of the make in Poland and Silesia, in some measure arising from scarcity of the mineral (calamine), and hence the rise in the price of that article in this market having been so considerable, or from 65 to 70 per cent, in the past year. As relates to steel, copper, tin, and lead, the differences are too insign ificant to require further notice than in a Statistical Table, having reference to metals, which we propose 2,812,291 ibs. in a Statistical Table, having reference to metals, which we prop to give. In quicksilver, it will be observed, there is an increase the past year, in some degree corresponding with our exports of that article, the several returns being—for 1839, 331,247 lbs.; 1840, 227,378 lbs., which showed a falling off of 33 per cent; while in 1841 it had again advanced to 310,689 lbs.

The next subject of interest in the tables before us is that of stocks of foreign metals, on the 31st of December, in the past three years; these quantities will be found enumerated in the abstract of the tables referred to, and require here but little observation, except with reference to spelter and quicksilver, which will be found as follow:—In spelter, the respective stocks for the several years were—1839, 3630 tons; in 1840, 1930 tons; and, at the close of 1841, 2000 tons. The stock of quicksilver for the like periods is —1839, 162,500 lbs.; 1840, 700,000 lbs; and, 1841, only 150,000 lbs. That portion of the table relating to the prices of metals for the past year, and showing the variations which have taken place, we defer noticing, as its consideration involves subjects for which we have not space to enter upon

In directing attention to the first Number of a series of papers, illustrative of a new system of Philosophy, and as such applicable to the structure of the earth, and affecting, as it does, the generally accepted opinions in the geological and mineralogical world, we feel it right, in the onset, to declare most distinctly that we do not adopt the opinions of the writer. It is not for us to discuss the correctness of his views, but rather to afford a medium, through our columns, of their being submitted to those more able to enter into so wide a field—one which must, indeed, from the infinite importance to be attached to the various links which form his theory, involve questions of a nature which, as connected with Scriptural history or scientific research, possess a claim on the at-tention of the professor of Christianity, as well as on the disciple

Having said thus much, however imperfectly, the object being alone that of acrupulously avoiding any identification with the series of papers to which we invite attention, we may observe, that, on a perusal of the manuscript, we find, as illustrative of the theory attempted to be established, not only many original observations and facts, but such as must evidently have been the result of deep research and personal investigation, in many parts of the world. The axiom laid down by the writer is of a startling nature, insethat, if proved to be correct, the opinions beretofore enter much, that, if proved to be correct, the optoions heretofore enter-tained by the geologists of the age, and upon which their various systems are founded, must, in a great measure, be overturned. To those interested in investigations of this nature—and no man, can be indifferent to the subjects treated upon, either in the whole or in part—we submit the series, trusting that the discussion, if any should ensue, will have the effect of enlightening mon's minds, while the theory, as demonstrated by Mr. MONYAGUE, will be either established by the conclusive evidence he professes to be able to afford, or destroyed by the proofs founded on past experience, and those authorities on which we have rested and formed

me standion is directed. Without entering into minute details, we we shall content convertee, as regards once expects, with observing to the comparative increase and decrease for the year 1840 one that the Comming Agriculture, Manufactures, and Committal Laxi past—the increase being for the year 1841 over that of the year 1841 over that of the proceedings as follows: — Iron, 20,731 times steel, 1445 times, cake copper, 133 hours; in, 1868 hours; tim, 1868 hours papers of Tuesdo IRON TRADE IN PRANCE .-- FOR m the French

DATA FOR THE USE OF BLAST-FURNACE MANAGERS.

BY SAMUEL BALDWYN ROGERS, ES ad Metallurgical Chemist, Nant-y-glo, Mor

[Mineral and Metallungieni Chemist, Nant-y-glo, Monmonthshire.]

3.—THE LIMESTONE.

The quantity of limestone used in making a ton of pig-iron, in this district of country, will vary from 16 cwt. to 25 cwt., and this principally in consequence of the floctuating amount of earthy residuums contained in the ores. Some of the poor mines will contain 2600 lbs. of carths in the quantity required to yield the ton of iron; others, again, as the rich mill ciuder, and best Lancashire ore, will not contain one-tenth that amount, or 260 lbs.—hence a furnace monager will have to apportion the limestone in his charges to correspond with the amount and nature of the earthy matters of his mines, and which "amount "and "nature" can only be known by analysis. There is another difficulty, however, in the way of the operator, and that is the varying nature of the limestone itself. The result of hundreds of analyses has convinced me that no two strata of limesresult of hundreds of analyses has convinced me that no two strats of lime-stone, in the coal-field of this mineral district, are exactly alike; indeed, stones worked out of the same stratum or hed seldom continue of the same quality, for, say, twelvemonths together, particularly if a "fault," or dis-location, should occur in the hed; here, again, the smelter can only safely

quality, for, say, twelvemonths together, particularly if a "fault," or dislocation, should occur in the bed; here, again, the smelter can only safely find his way by means of analysis.

A fair average of linestone required to the ton of iron will be 20 cwt., or 2240 lbs. This amount of stone will, if of good quality—say 94 per cent. of carbonate of lime—contain, 1st, 842-14 lbs. of calcium (the metallic base of lime), and 336-86 of oxygen, forming 1179 lbs. of oxide of calcium, usually termed pure, or caustic lime; 2d, 252-7 carbon, and 673-9 oxygen, constituting 926-6 carbonic acid, which, united to the 1179 of pure lime, will form 2105-6 lbs. of carbonate of lime; 3d, about 4 per cent., or 89-6 lbs, of the stone, will be foreign earths and oxides; and, lastly, 2 per cent. of water, or 44-8 lbs.—total, 2240 lbs. Some linestones will be nearly pure carbonate of lime and water, whilst others will contain foreign earths and oxides to the extent of 25 per cent., in which case great care should be taken in their selection for use in blast-furnaces—for instance, if silex or magnesia should greatly predominate in their composition, such stones will be inefficient in the smelting process, not only to the extent of their deficiency of lime, but to the quantity of that material negatived, as it were, in bringing into fusion the injurious excess of silex or magnesia.

The protoxide of iron will cause silex or alumine (which cerths are, of themselves, scarcely fusible) to readily enter into fusion, at the temperature of a blast-furnace, but the results will be a black, and, what is usually termed a scowering cinder, with, perhaps, not one-half of the iron contained in the ores, and even that will be of a very impure description. A similar result would be produced with a deficient quantity of limestone; the iron, however, may be more in quantity, and of a somewhat better quality, yet a very considerable portion of it will remain in the cinder. But, when the lime is in sufficient quantity and effective quality, to bring th

In this mineral district we have taken three distinct kinds of limestone—vir., 1st, the silicious, or stones in which silex will be, more or less, combined with carbonate of lime, water, and peroxide of iron. The proportions of silex will vary from 4 to 20 per cent. of the entire weight of the stone. Limestone, containing more than 6 per cent. of silex, will, at the works in question, seidom work well in the furnaces, but should they contain more than 10 per cent. let them be avoided entirely, if any way possible. 2d, the aissements, or those in which alumine will be a component part, its proportions varying from 2 to 10 per cent. Aithough I have denominated this kind an aluminous limestone, it is not that alumine is, in quantity, the predominant impurity of the stone, which is very seidom the case, but because alumine, if equal in weight to half the amount of silex, will neutralise its injurious effects in the blast-furnace, and, therefore, a stone containing 2 per cent. of alumine and 4 of silex, or any other quantity of silex and alumine, if in this ratio, will, when used in due pro-In this mineral district we have taken three distinct kinds of limestone silex, will neutralise its injurious effects in the blast-furnace, and, therefure, a stone containing 2 per cent. of alumine and 4 of silex, or any other quantity of silex and alumine, if in this ratio, will, when used in due proportions, be a good flux for the iron mines of this country. An excess of alumine in these stones need never be apprehended. Jd, the megaesian, which is a limestone containing from 2 to 10 per cent. of magnesia. Per-exide of iron and silex are a so found in these stones to the extent of from 4 to 12 per cent. of percent. of silex. These limestones are, at their crops, or outbursts, of a brownish yellow, or fawn colour, and often of a sandy texture, and they are the worst seet that the seacher can see, for magnesia, even in small quantities, will very materially impede the fusion of the other certhy residuums of the materials in the furnace. of the materials in the furnace.

of the materials in the furnace.

A stone that will burn into white lime exhibits a good criterion for the smelter; but the only sere way of proceeding is, as before repeatedly observed, by analysis. There are limestones in this district which are of a dark modely bine colour, and some almost black; these contain a portion of free, or uncombined carbon, varying from 1 to 4 per cent. of their weight; their carby importing are almostic and alics, in which alumine generally prevails, consequently such stones will, if used in sufficient quantity, invariably work well with the efficient iron eres of this part of the country. Chaik, coyster shells, calcareous spar, fluste of lime, usually called "Derbyshire spar" (an excellent flux for blast-furnaces, if it could be obtained sufficiently cheep), and many other materials, may be used as fluxes for the silicious iron area, or eres containing both alumine and sicontained sufficiently charge, and many street materials, may be used as fluxes for the silicitous from ores, or ores containing both alumine and siles; but for the enleaceons hind, clay or shale, or materials in which alumine will predominate, are the natural fluxes, whilst the aluminous ores will require a portion of the enleaveous to be added to them, so as effects-elly to bring their residences into proper fusion; therefore, if an iron-work were to be established at some convenient spot, where the silicitous, the aluminous, and the calcurrous cross may be established constantly. work were to be established at some convenent spor, where the atominous, and the calcareous error may be enascentially and constantly obtained in sufficient abundance—my, for instance, at Newport, in Monmounthshire, or Cardiff, in Gismorganshire (at. sither of which ports due to the continuous section of the continuous be readily procured)—a result may be requires of the ores in questions may be readily presured)—a result near he obtained that would be of a much move million and better quality than can possibly be usuale by any separate use of such mines, or by may blusry combination of them, become their residency earths, i.e., their lime, there size, and their alumines, would reciprocally neutralise and fore each other, at the temperature of the ideat furnace, into a clear and nearly colouriess glassy cinder, whereby the iron would be left entirely free to units with the most desirable dose of carbon to produce the less, or, at least, the purest possible species of pig-icos—a result of this description would, with parative case, he convertible into wrought iron of a quality equal to valuable kind assually termed " charcool-iron," and at a cost very lit

Depart and Minaant Gonzoneral Society —We buy to remind our region that the first general meeting of this accordy will be held at Dudley, on Messiey acts, the 17th test. Lord Ward will preside on the consisten, and R. I. Murchinon, Fernident of the London Gonzagiral Society, will deliver the squaling address. Dr. Buckland is also expected to be propost, consequently the proportings will be of a highly interesting action to all who are interested in the progress of giological orience. The measures, which will be opened on the major day, will, we understand, contain the most complete system of the feasile of the Silvetim system which has yet been formed. Assume them are many now and undescribed system.

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GEOLOGY-A NEW SYSTEM OF PHILOSOPHY.

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GEOLOGY—A NEW SYSTEM OF PHILOSOPHY.

BY HENRY GRARAM MOSTACUE, 2842.

Philosophy, the reasoning power and the energy of mind, leads the way a content of the physical sciences—embracing in its investigations the coast as even of the physical sciences—embracing in its investigations the coast as even of the physical sciences—embracing in its investigations the coast as even of these principles proceeding therefoon, and the proximate raiseiples produced by the operations of organic bodies, or developed in a curious districts of these principles and proximate principles in the fosail and instal kingdoms. Philosophy is the tree of knowledge, the several physical sciences being the breaches thereof, bearing their intellectual fruit, speaks of the living and the dead, of matter, of motion, of fight, of heat, of electricity—of the powers of matter in motion, and of the singularly beautiful results proceeding therefrom, as atomic particles, aggregates, laterary bodies, and systems. It exhibits life in its gradual development, the changes to which segment bedies are subjected when they enter the changes to which segment bedies are subjected when they enter the changes to which segment bedies are subjected when they enter the changes to which materially is subjected, and the secret and manifest causes of those changes. It was a sequisition, life in its forms, changes, and viciasitudes, the union of matter with stater, the systems of the universe, the endless changes to which materially is subjected, and the secret and manifest causes of those changes. It was a sequisition, and the secret and manifest causes of those changes. It was a sequisition, and the secret and manifest causes of those changes. It was a sequisition, and the secret and manifest causes of those changes. It was a sequisition, and the secret and manifest causes of these changes in the secret and manifest causes of these changes in the secret and manifest causes of these changes in the secret and the secret and the secret and the secret and the secret and

stubborness of his facts, and the simplicity and purity of his statements, confirmed by observation and experiment, and correct axioms derived therefrom.

It has hitherto been the business of their cown, founded upon errors and appersitions and conjectures of their own, founded upon errors and appersitions—thus they have substituted metaphysical subtilities for the implicity of reasoning, and declamation and positive affirmation in the slace of positive facts—seeking, in obscure terms and inventions of their two, to torture and perplex the uninitiated, who are truly desirous of insection, by a barbarous jargon of terms, idle conceits, and dreamy illusions; Nature being thus obscured, as Baron wisely observes, by "exotic lowers of rhetoric, arbitrary distinctions of forms and principles, methodical arrangements, satirical categorics, plausible theories, pleasing similitades, or dark and ambiguous asyings, and invariably positive affirmations." Thus it is in the multitude of conflicting opinions, arguments, and assertions, the end and aim of natural philosophy, which is to intruct the mind in natural objects, and give a correct and comprehensive risk of causes of effects produced, burns obscured, or is totally lost.

Many modern philosophers, some of whom even now stand in bold outline before the public, hesitate not to conceal, pervert, or condemn truth, because truth condemns their absurdities; and thus it is, numerous invaluable facts are jurposely concealed from the méditude, as bring incompatible with the ideas entertained by the ignorant; but the right use of learning is to search into Nature, and, on acquiring correct conceptions of things from setual observation and experiment, to give such conceptions of things from setual observation and experiment, to give such conceptions to the world in their purity and simplicity, and not to disfigure them by speculative opinions accordant with vulger projudices, and at variance with their own ideas. In truth, the unlimited credit given to authors, from he position his will said pleasure, discard in pressions derived from the commercest stimonies of others, or from actual observation and raperiment. Things feat to the mind became ideas of the mind, indebbly stamped there

interiments at others, or true sections of the mind, indebibly stamped thereon, manifest to the mind become ideas after mind, indebibly stamped thereon, without reference to ideas particularly received.

The philosopher, in his purest of truth, treads a theny and perileus path; is has at conquer not only his even perjudices, but he has to encuente the deep-reacted perjudices, the follies, and actipathies of his fellow-news. As he advances so his difficulties and perplexities increase, from the want of sufficient firmness, on his part, to resist the opposing revenue of his war perspectived notions, or from not having tast and intuitions of his real perspectived notions, or from and having tast and intuitions as to readercy to distract the mind, and to ensure it to diverge from the correct path of observation. Ton often his fears recrease his determinations as he vertices to approach the sandagary of realism and to remove the vell of fishelessed, which has comended for ages and the highs of folig. The intuitived savings of his contention for the plantation of social his, and dischance all inclination to advance in a knowledge of the sets made of the latest produces. Man is civil rectical hear dischance for the plantation, because impressed upon them by habit, they become purt and seventhances impressed upon them by habit, they become purt and seventhances that versional lim, receiving connected by in the reception of terribustances what versional lim, receiving connected by in the confidence of the secretion of the ideas. Cantons in the hearothy her tile or index and hereof the secretion of the ideas and here is the providence in dealess that versions is the hearothy in the winder of the secretion of the ideas. Cantons in the hearothy is the receiving the field of the field being. The optimization, and the winder of the secretion of the ideas are secretary to the secretary in the secretary in the secretary in the secretary is the secretary in the it dangerous to advance: thus it is according a struggles into less the feelings, the opinious, and the wishing of the sucid.

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B. T. C. G. T. E. E. E.

A fact elicited from Neture, or an axiom established from demonstrative traths, is received or condemned by the world as it suits the viswa and purposes of those who direct the minds of the multitude; the truth is seldon received or admired for its own sake, unless it happens to administer to the follies or the explicitly of men. The mind is prone to receive ideas in accordance with those previously received, rather than those which condemn existing ideas; thus it is the impure ors of imagination when amalgamented with notions current in society meets a more ready recuption than the pure ore of truth, collected with care and assolutly from the rich and varied mines of Nature. Superstition is a loathsome weed, clocking up every good quality of the mind, narrowing its proper conception of things, paralising its movements, poisoning its enjoyments, and standing in hostility to its advances; it is an opiate, feeding the mind with glittering ideas, but at the same time administering desolation and death to the animal frame.

isdees, but at the asme time administraing desolation and death to the animal form is produced in produced, and as such it is a true remult, being an acknowledged form or body. Motion is its generation is Nature, and the state of the state

specified result, but one body, in its consequence of a second stream, actively also become properly extreamly. In the second control of the product of this second order. The illustrate this more clearly—we say gold in a union taking place from the firece of distly of coloration, but it the same than a largerfest union, waying in bend administrate in all its parts are the same and apperlies to the among the product of the

ORIGINAL CORRESPONDENCE

ON THE CHEMICAL CONSTITUTION OF COAL

ON THE CHEMICAL CONSTITUTION OF COAL.

TO THE EDITOR OF THE MINING JOURNAL.

Sia,—I beg to reply to Mr. C. W. Williams's semarks on my Resegon the Chemical Constitution of Chal, but before proceeding to the subject matter of his remarks. I would, first of all, set him right on a subject upon which he has failen into an error. Shortly after the date of my former letter, which was published in your Journal of the 11th uit., I perusaid Mr. Williams's book On the Consistation of Coot, and I there found the review of my essay by Dr. Kane, which has since been published in your Journal of the 25th uit. Finding from this document that both Dr. Kane and Mr. Williams had been ind into some unaccountable error, in attributing to me opinions which I never contextained, and which are nowhere to be found in any of my writings, I considered that I should be acting more contributely to these gentlemen to inform them of the error they had failen into, in order that they might themselves correct it, rather than that this error should be exposed by another person. I his wise considered that to an honourable mind it would be a pleasing duty voluntarily to acknowledge an unintentional error, if such had been committed; I therefore placed in the bands of both these gentlemen copies of any essay, by which they would find that not only had I not stated what they attributed to me, but the very opposits opinions were stated, in words far too strong and too explicit to be misunderstood. As these gentlemen, however, decline this course, I shall myself proceed to point out their mistakes. It was this which caused one to write to Mr. Williams as he states, and not the desire of a "personal altereation," as he imagines, which would be an unnecessary as it is foreign to my awall babils. Neither have I desired Mr. Williams directly to point out the errors; nor have I refused to state what those errors are, as Mr. Williams asserts in his letter. I have discharged what I considered to be an act of courtery to these gentlemen, in his book alread

have so far forgotten what was due to [his own reputation, as well as to the courtesies usually existing between men of isolence, as to publish decided statements upon another man's labburs and opinions, without taking the trouble to lears correctly what those opinions were. If this is the mean mode Dr. Kane persues, in reviewing the works of others, probably less reliance will in future be placed upon his opinion than has hitherto been the case; and though I would willingly, if it were possible, exonerate Dr. Kane from intentionally ministating my opinions, I cannot acquit him, under any circumstances, of having adopted a most unusual, as well as a most improper, course in reviewing a work from a very abort, and, the refore, necessarily imperfect abstract of it—but which abstract even will not admit of any such interpretation as he has put upon it, while the easy itself most fally disproves his assertions in every particular.

To Mr. Williams's proceedings also I have much to object. He seknowledges to have read my manuscript at the Iostitution of Civil Engineers, and he therefore must have known, or, at least, he ought to have known, at the time that he published Dr. Kane's review in kis Treatise on the Conditation of Civil, that the opinions contained in the essay were not those which Dr. Kane stated. Whether Mr. Williams expects to add to his own reputation by attributing errors to others, which are totally at variance with what they have stated, I shull not now loquice. He promises to point out further errors in my cassy, and it remains to be seen whether they are similar in character to those already enumerated. If this is the way he interprets the maxim, Amer realass petimes daswapus releases which is the mode in which he represent in a former letter to es so far forgotten what was doe to [his own reputation, as well as to

whether they are similar in character to those already enumerated. If this is the way he interprets the maxim, hence rentam petiessa dasseque victaris—which is the mode in which he proposed in a former letter to discuss this question—I would beg to decline the privilege it confers upon me, and would rather adopt the motto, verifar withit evertur aim abscondi. I would not have it imagined that I object, in the slightest degree, to the fullest discussion or animal version on any published opinions of mine. I am quite able, as well as quite willing, to defend them, and I only request that my opinions may be fairly stated, and not, as in the present case, that expressions the very reverse of what I have used should be attributed to me. Having recently read Mr. Williams's work On the Combustion of Coal, I will, in a subsequent letter, point out the errors which it contains, some of which will, perhaps, afford an answer to the inquiries of your correspondents, relative to cartain effects which have been observed in Mr. Williams's fareneses.

Charles Hoop. Rari-street, January 10.

ON THE COMBUSTION OF COAL

ON THE COMBUSTION OF COAL.

TO THE RESTOR OF THE MINING JOURNAL.

Sin, "Having been called so by Mr. Charles Hood to retract my assertion, that there were several chemical errors in his paper On the Combustion of Coal. I began by giving Dr. Kane's opinion of some of those errors. This was inserted in your Journal of the 25th of December last, and I propose following it up, with some additional observations as to the further variance between Mr. Hood and the best chemical opinions. last, and I propose failowing it up, with some additional observations as to the further variance between Mr. Houd and the best chemical opinions of the day, for if I were to say I would "correct these errors," I would, doubtless, he charged with "riding rough shod" over wiser men, and broacking come "new theory," when, in fact, I was merely pointing to where Mr. Hood was in error, and where he differs, not from my own opinion alone, but that of the best established chemical authorities, and on points which now adon't of no dispute. At present I refer to a paper by Mr. Hood in your Journal of the 8th inst., which appears to have been also sent to the London Smake Nuisance Committee.

In that paper, Mr. Hood says, he has shown that "the various modes of consuming smake in furnaces is referrible to two distinct principles—viz., ist, by bringing heated air in contact with the gases; and, 2d, by exasing the coals to be more gradually exposed to the heat, by which means a different description of gas is produced, which burns with a smaller proportion of air." According to the best authorities this is incorpect, for it is not a different description of gas that is produced; the effect of a quicker or slewer action of the fire being only that, with the furnace the proportion of bicarburetted is somewhat increased, the main body of the evolved gas being the carburetted hydrogen.

"By either mode," Mr. Hood observes, "the whole smoke of a furnace be consumed." He adds, "so little is understood as to the cause of smoke, that compulsery measures would not be required if sufficient would not be required in sufficient would not be required in sufficient would not be required in sufficient would not be required." This

Farnace be consumed." He adds, "so little is understood as to the cause of smoke, that compuleary measures would not be required if sufficient publicity were given to the reticoncle, both of its cause and cure." This I believe to be true, but most assuredly that "reticoncle" is not to be most with in Mr. Hood's paper. Again, he observes, "In my casay I have endeavoured to show in what the combastion of smoke depends." Now, I have causined that paper, and have been unable to discover any illustration of the hind beyond the ataxonomy of the same discover any illustration of the hind beyond the ataxonomy of the same discover any illustration of the hind beyond the ataxonomy of the same discover any illustration. tration of the kind beyo tration of the kind beyond the statement of the above two methods, which are there given at length. As, however, it is just what I, in common with most other practical men, have been in search of, we could not

have missed it had it been there.

In my own Treaties on the Combustion of Coal, I have stated that In my own Precises on the Conduction of Conf. I have stated that "the mere enunciation of the term, the 'combustion of sucke,' is prime fixed evidence that the writer had not sufficiently considered the subject in its choosinal relations. We can all understand the combustion of gas by which the generation of smake is avoided, as we see in the Argued oil lamp or gas become, but, as to the combustions of the smokes artising from the importest burning of the gas, it is not only unscientific, but incorrect—and to say, impossible," Mr. Hood observes, that "he has not may with the regionality of its convene and its rest in the sate of the smokes.

but incorrect—and to any, impossible." Mr. Hood observes, that "he has not met with the rationale of its causes and its cure in any scientific trustion." I quite agree with him on that point, having myself experienced the same difficulty, and hence the necessity of the inquiry to empty this manifest deficiency, from the want of which so many ingenious patenters have reponded their labour and means in search of this igmis fatnes—the means of "consuming smoke."

Mr. Head points out six mondes of effecting the "combination of smake," yet I means on six mondes of effecting the "combination of smake," yet I means one of the six place being founded on a chambial ortic or physical oversight. But let us briefly examine them. Ist.

"The gradually heating the mail in the anterior part of the furnace."

Ac. What this has to do with burning the smoke does not appear; and whether there shall be any smoke made or not will depend on other considerations not tomebad on. 3d. "Conveying atmospheric air to the upper situation of the fuel on the furnace through heated heich flore." The same observation applies here also. 3d. "Conveying atmospheric air to the upper straines of the fuel on the furnace through heated heich flore." The same abservation applies here also. 3d. "Conveying atmospheric air to the upper straines of the first part of the fuel on the furnace through heated heich flore." This is identificated, being delivered into the formace above the fired. "This is identificated with No. 2, with the disadvantage of upong metal preseage instead of peas through motel pipes kept but in the furnaces, such air, when thus heated, being delivered into the furnace above the fuel." This is identical with No. 2, with the disadvantage of using motel presenges instead of brick once. Ith. "Heating a current of sir in tubes furname a part of the buller, the sir being then passed into the furnace above the fuel." This is but another edition of the former, 3-th. "Blowing a current of air into the furnace oither by the sah-pit, or as buffers, above the fuel." This is still the same petuciple. Ith. "Injusting steam into the chimney of the furnace," thus, "producing a more rapid draught." This is feamined on his original cross as in draught (see Ur. Kane's observations on Mr. Houd's paper, in the Journal of 25th of December alt.)

Now, the whole of the first five plans here these collect cross—that they introduce air (but or oak) above the feel in the furnaces where dif-

New, the whole of the first five plans have these redited ervors—that they introduce are (but or cold) shave the fool in the furnages where different carried are (but or cold) shave the fool in the furnages where different carried are been effected, and where the gases bring but just go mergined are necessarily yet two coul for chronical articles; and, farther, that they involves the question of hot air to the gases, than which there examed his a serie of popular physical and chronical excession. If Mr. Rond will insist on the efficiency of these plane, I shall be happy to hear his distinct reasons, and discuss them with him.

Mr. Hand observer, that " the injection of abram into the chimney is the most simple mode which can be adopted for the consemption of amount in areas of the wind a fact the neighbor of provided into the chimney, in a fact the neighbor mode which can be adopted for the consemption of amount of release the rather, without a plane is incollisated in daily proved in heremotive-origines using colals (as in herefored), where the whole steam is injected into the chimney, the foreign of a very good, yet the mean of amount gorounded to also very great.

As for the except such them we promised them accentance of the second popular in the chimney is a new popular in the second popular in

tals being questioned, it is clear to lays himself open to the inquiry—What is it which he professes so to burn or consume? I sak, then, what is it he indicates, when he speaks of the "combustion of smoke?" I mean chemically, for a chemical investigation (and especially by one who professes to reason with the accuracy and certainty due to the atomic constitution of matter) demands a rigid and absolute precision. What, then, is this matter of smoke which he would trach us how to burn? What are its composition, character, nature, and properties? What quantity of air or oxygen does it require? and, What are the conditions of its combustion? ned, it is clear he lays himself open to the inqui a professes so to burn or consume? I ask, then, t then he species of the "combustion of smoke?"

It was for the sake of correctness of reasoning, and that I might see my own way in practice, that I found it necessary to clear the ground for myself from that confusion of false premises and unastisfactory inferences which prevailed among the host of "smoke burning" inventors, whose ingenious contrivances followed in such rapid succession, each in its turn destined but to disappoint both the inventors and the public. The accompanying analysis, of which I beg your insertion at your convenience, will explain my view of the subject. To be sure, however, that I was not deceiving myself. I submitted my paper to Professor Brande, and transmit to you his opinion also. If Mr. Hood will point out any errors into which I may have fallen in my analytical view of the subject, he will confer a great favour on me—all I am in search of are facts, chemically proved. If he will assist me in their development I will follow his suggestions—el som his uters mecum.

C: W. Williams. Liverpool, Jan. 10.

[The paper referred to will be inserted in our next.]

Exempost, Jen. 10.

[The paper referred to will be inserted in our next.]

RCONOMY OF FUEL—PREVENTION OF SMOKE.

TO THE RESTON OF THE MINING JOURNAL.

Sire.—When I last addressed you on the subject of economising the fael of steam-engines, and particularly on effecting it by burning or preventing smoke, I did not specify, as it now appears to be necessary, one particular point in the argument, which both Mr. Williams and Mr. Arastrong some equality anxious to avoid, from which I infer that neither of them have any very clear conviction respecting it; I shall, therefore, say very little respecting the extraneous matter with which both parties have in your two last Journals pretty nearly smothered the only important point in the discussion, which is of any real interest to the manufacturer. The point I allude to, and on which the whole question of economy hinges, is the admission or non-admission of sir at the back of the bridge. It appears that Mr. Williams claims credit for the discovery of the production of carbonic oxide gas in furnaces, after the carburetted hydrogen gas is expended, and considers that the former requires an equal quantity of air for its complete combustion to the latter, and he therefore concludes that the supply of air to the gases behind the bridge should be uniform in all states of the fire, or whether there is a visible flame passing over the bridge of not—hence he also conclusies that no "regulating valve" is required. This arrangement Mr. Armstrong considers to be productive of both injury to the boiler and waste of fuel, and, in denying Mr. Williams's claim to the discovery of this carbonic oxide gas, asserts that it ought to be burnt in front of, and not behind, the bridge; and, although this gentleman says that the burning or combustion of this gas has a very small heating effect—which I can easily believe—I think he is bound to show, if it is to be consumed at all, how it is to be supplied with atmospheric air or avygen for the purpose within the great room of the furnace, where o

MR. WILLIAMS'S LECTURES ON STEAM BOILERS.

TO THE ROTTOR OF THE MINING JOURNAL.

Str.,—As a constant reader of your valuable paper, I confess I am surprised to see in it to-day a statement by Mr. Williams, that it is not much read in Manchester. If your aubscribers, in common with those to other Loodon papers, are not so numerous here as in Liverpool, of which, however, I have no means of judging, I think he is mistaken as to your readers. It appears Mr. Williams is now giving a course of lectures on atean-boilers to the Victoria Gallery Institution, which is held in the Enchange dining room, to which a number of Individuals subscribe II.

a year. Now, it would be quite as erroneous to suppose, that, because his lecture intracked a very small suditory on Thursday last, it will be very little known; I can assure him that there are many, who, although proprieters of steam-engines, and much indocested in the subject he has brought forward, like myself, much peefer reading his lecture in the Guer-dion, in the newarmous below, free from the annoying—and, sometimes, dism, in the news-room below, free from the annoying—and, sometimes, irrelevant—observations of two or three (what shall I call them) chemists and druggists, who neither understand Mr. Williams nor the important subject he is upon. In this consure, of course, I do not include the always-pertinent remarks of Mr. Roberts, who is justly considered the first mechanic in Europe, and whose observations, I think, the reporter cuts off rather too briefly, Mr. Davies (the lecturer), Mr. Fairbairn (the celebrated engineer), and some others. In the last report, you of the name of this gentleman, but inserted a puff of C. W. Williams, instead, which was not in the Guardian report. As a lover of truth and fair play, and a partison of neither Mr. Williams nor Mr. Armstrong, I trust you will give us the Guardian's report as it stands, which I therefore inclose, and your readers in Manchester will not be diminished on

Manchester, January 19.

We are obliged to one correspondual for his attention in forwarding the part of Mr. C. W. Williams's lecture, with which, however, we had presently been provided; we agree with him that by far the most of those in-resided in the important discussion now groung on in Manchestre and electron, predic quintly reading a report, presed of irrelevant matter, in almost the importance of the observations of really admitted men are odding the lecture-recom, where the observations of really admitted men are where, preservences, where the observations of really scientific men are frequently interrupted by the ignorant remarks of parothe-chemists and others. "A Lookev Ch." is to error, in accusing us of smitting the name of My. Farshnires, of whose talents we enterthin the highest opinion, and incerting a puff of Mr. Withiams. We assure our exceptionals we have no wish to be the transportation of the periodic fit. Farshnires, or may other gratieman, of what credit may be due to him or them, and that the adoption of such a course, on our part, wents prove most unacomplable to Mr. Williams, where only object, we have erason to believe, in the clicking and discomination of solvatific truths; the report was inserted outer, as furnished by a correspondent in Manufacture, without the least alteration on our part.

SPELTER MANUPACTURE-BLACK-JACK

ro run aprion or run minimo joumal.

noticed the two late letters of a " Black-Jack Minial remarks, and must say, his complaint of the fire and your editorial remarks, and must say, his complaint of the first remarks—evading the question—equally applies to those in his second letter. You both leave in the back ground what is the real cause of the research low price of this English mineral, which is, "the great question of ore capable of being supplied beyond the demand for applier or, it is make." Hitherto, from the nature of the English ore, the speller make the companyation of that quality is limited, it came make." Hitherto, from the nature of the English cre, the speller im-will not roll, and, as the consumption of that quality is limited, it cam be expected to be made in this country beyond a limited extent. I cak late the consumption of England this year will be nearly 6000 tons, which about 1500 will be used for amalgamation with copper, to produbense, and which, for this country, is perhaps sufficient, while we already making about 1100 tons from twenty, two furnaces, already erect besides more now creeking. The mixed metal making by Messra, Grr fell and Muntz, being for rolling, personers, must. I consider, he annuli brass, and where, for the street word, two furnaces, already erected, besides more now creeting. The mixed metal making by Mesers. Greafell and Muntz, being for rolling purposes, must. I consider, he ampplies by the foreign spelter, and the residue of the 6000 tons, being for pursheet sine, must come from the same source. There is, no doubt, as opening for still further production in this country, from this kind a spelter being available for brass purposes in France and elsewhere; but when it is considered the article cannot be groduced here much under 200 per ton, it would be a dangerous experiment to attempt to cope with foreign make, which, being produced from a less atubbors ore, and by a different process, destroying less coal, can be rendered at a far less price. The faifing off in the general foreign produce, towards the particular required consumption, is the real cause of the late rise in price; and should this countine, as is possible, an opening will exist for extending the English make to a certain definable extent, though, from the great margin in price and profit to the foreign make, and the great expense in the furnaces, here (and small results as to quantity produceable by each furnace), it will be a work of time and great consideration to those embarking in this trade. If, however, this difficulty can be overcome, of rolling English spelter into good elsect sine, and the present consumption of all countries, spelter into good elsect sine, and the present consumption of all countries. spelter into good sheet sine, and the present consumption of all countries and the present confined foreign make continues, there would be at opening for an extension of make in England of at least 5000 tons annually till then the "Black-Jack Miner" must keep his ore, if he will not se at market price, what is now over produced. January 13.

London, January 13.

P.S.—There are some incomracies in the "Black-Jack Miner's" catimate for producing sine in this country, the quantity of three tons of ore being probably insufficient, allowing for waste, &c., also on the average quality, while by modern inventions, as to fornace, draught, &c., the quantity of coals may be over-estimated; the grinding is omitted also, and the wages are too low. I should say, on general principles, 20% would be a fair average of the cost of producing a ton of English spelter; this work still cover aleasy profit on oversent price, but when even last

the wages are too low. I should say, on general principles, 20t. would be a fair average of the cost of producing a ton of English spelter; this would still carry a large profit on present price, but when even last, you it rose from 23t. 10s. to 40t., is 38t. mon, coming from 9t. in 1829, and averaged only 11t. for five years afterwards—went up to 23t. 10s. in 1836. and fail to 12t. in 1837—stood at 20t. about an average for 1838, and 1839—in 1840 was 22t.—it is surely rather to be, considered a speculative article to enter into beavy expenses for the make of only small quantities, on an easily overstocked market.

[!* A. B., !* is an ingratious correspondent, and a shrewd observer, as his letters, inserted in our columns some two or three years since, clearly demonstrated; and that he is no friend in an increased make in England, as shown on that occasion, as well as the present; is, we consider, pretty manifest. Our correspondent considers our remarks on the first letter of a "Binek-Jack Miner" as not being apposite, while the second letter, he telle us, equally evades the question, which is simply that of "the great quantity of creapable of being supplied being beyond the demand for spelter of English make." If we did not convey our observations in the self-same words, we think the inference was clearly to be drawn, that there exists in this country a surplus supply of this description of ore, as we described it being treated in smay cases as more "refuse," or "attic." Now, admitting the general corrections of the views entertained by our correspondent, we must differ with him as to the impracticability of rolling English spelter, as also to certain data based on such premises. We also somewhat doubt whether the attempt to immanufacture speiter in this country, on an extended scale, from "black-jack," as of dangerous an experiment as he contemplates, or the ore being of that attables and on such of the manufacture of English spelter, as also to certain data to the cost of the manufacture of English spelter, whose letters were inserted on a former occasion, to which we have referred may be disposed again to take part in the discussion.)

ON THE LATE SLIP AT THE BRIGHTON AND CROYDON RAILWAYS.

ON THE LATE SLIP AT THE BRIGHTON AND CROYDON RAILWAYS.

YO THE EDITOR OF THE MINING JOUANAL.

Sin,—It is with surprise I observe that the late accident on the Croydon line has been allowed to pass by comparatively unnoticed, when its extent is alone considered, not to advert to the fatal consequences which might have arisen had the slip taken place at the moment of the passing of a train, as stated to have been the case on the Great Western line. Being interested, as a shareholder, in the Brighton Railway, of which this may be considered to form a part, I am induced to treepass on your columns with a few remarks, the result of personal inquiry, and avading myself of some useful hints and observations which fell from Mr. Vignoles, who visited the spot on the 11th inst., of which I have been favoured with notes, and which I shall be happy to submit to your person. The point where the last slip took place is situated between Finch's bridge and New Creas, the cutting being, I should suppose, fall sixty feet deep, and upon a slope, or incline, of two to one—that is, two borizontal to one perpendicular, forming an angle of about thirty-three degrees. The earth is here of a clayey nature, being what, I believe, is termed the Loodon placific clay, from which bricks are made, interspersed with sand and gravel, which thereby readers it less compact, and, consequently, more subject to runs, or slips, such as have of late been of an frequent recurrence. The extent of the nilp, I should suppers to have been cat away from the upper part of the cutting rather by the work of art than that of nature, on perfect is the cutting rather by the work of art than that of nature, on perfect is the cutting, or vertical separation, in the soil effected by the personation, and that of your readers, to the subject, in to raise the question, at least if not to demonstrate, whether great blane is not attachable to some party for the neglect which here is rendered so apparent, of heavy cuttings, or embankments, of this nature not being regula must if not to democatrate, whether great blams is not attachable to some party for the neglect which here is rendered so reportent, of neary cuttings, or embankments, of this nature not being regularly inspected, more expectably when the many occurrences of a like nature about have regendered caution. It must be known to all who are in the slightest degree conversant with earthwork, that drainage forms an important festure, and although in the present instance. I do not attempt to charge the engineer, who had the laying cut and conversant with earthwork and the state of the laying cut and secretaristanders of the line with having and who had the laying cut and superintendence of the line, with baving ne-glected to take the necessary precautionary measures, yet I connot squall the executive, with whom is left the keeping of the line in repair, and at-tending to the cuttings and embankments, of having displayed green

tending to the cuttings and embankments, of having displayed genus ignorance or neglect.

The water, as I have already observed, was collected in a drain at the upper part of the cutting, which, instead of being puddled, to prevent the water entering the bank, and having a classed of being puddled, to prevent the water entering the bank, and having a classed which it forward the head, has, from neglect, bren allowed gradually to find its way, and forms a pussage into the bank, whereby its accumulation, acted open, to deads, by the alteration in the temperature, at one time freezing, thereby creating arpandura strains, and again liburated—in which latter case it is absorbed by the earth—has evidently been the count of this and ancident, which, I doubt not, from what I can learn, will be attended with a cost of from 50000. to 10,0000, New, Sir, I wish not to cavil with the directors, or their respector chairs men. Mr. Wilkinsten, as to the way is which they do things, but if I am to judge by the course pursued by them, in the removal of the earth, as in the application of the found of the company, otherwise pieced at their disposal, I should all at some say that no dividend out of profits one ever be realised. That I should not, however, minimal year, I would only submit a few quarters, the ruply to which will at once satisfy yes whether I am overset in my consciousness or otherwise. I would then sais, Sir, what is the estimated quantity of earth in owline yards to remove? Whether the work is done by continued or day labour? What the name of men men.

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fwo and fathoms vast and west en producis park ind for tin; in very p

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Jan. 6 stones of eighteen lines,

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ployed? What the amount already expended, and that further contemplated? I fear I have carried this nomewhat discursive letter to an unreasonable length, but, should you give it insertion, I will endeavour to reader my next unore concise. The main object on the present occasion, in directing your notion, is the circumstance of a meeting of the chare-holders in the Brighton Railway Company being called for Thursday next, As we pay a toll to the Croydon Railway, and are seriously affected by any accidents of this nature, whether arising from our own fault or theirs, and as in the present instance, I suppose we have no redress, it behoves the the obliders to institute a searching inquiry as to the causes to which the obliders in attributable. If I am right, then ought a change to take place in the executive management. If I am wrong, the inquiry will, at least, do good, while it will go far to satisfy those sceptics of which I confess myself to be one.

London, Jan. 14.

THE "STANDARD."

THE "STANDARD."

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—In your Journal of this day week you appear to be under an expectation (from what you there expressed) that same of your mining friends would represent a case, and work out a solution, to elucidate the method of getting at the standard of copper ores. Having a little time on my hands, and that you may not be disappointed, I will, therefore, endeavour to furnish you with (I believe) the general rule for so doing. Be it understood, I now consider myself addressing some that are not accustomed to attend the ticketing room on the sale of ores, that those who mently make out the standard find it necessary, to facilitate the business while the ores are on sale, to get the produce of the different parcels of ore, and, as the sale goes on, to note down the price that each parcel sold at, to be enabled thereby to make out the average standard, and, in conclusion, to get the assumt of ore money of all the ores sold. Having thus explained myself to those who are not equainted with the usual process, I shall proceed to lay down the rule (I believe) in common practice.

First, multiply the number of tons in each parcel by the produce thereof, then add all the products together, and divide that sum by the total number of tons of ore sold, and that will give the average price per ton. Thirdly, and lastly, then add the returning charges—vix., 55s.—to the average price per ton, and say, if the average at so much per ton will give so much what will 100 give. Now, I will give a some five per ton will give some the hat will 100 give. Now, I will give a some five selection of the thing. Perhaps there is not one in fifty that even frequent the ticketing room that can make out the standard for themselves, but they generally wait the announcement of the standard form some one adequate to the performance thereof. To proceed—

107 × 4½ = 521

97 × 6½ = 554

92 × 5½ = 741

68 × 4 = 272

60 × 9½ = 555

26 × 4½ = 107

Total tons. 450

— 2850, gives 6½ average produce, discarding f

Total tons. 450 — 2850, gives 6] average produce, discarding fractional remainders. Then the amount of ore money, viz, 21821. 450 (total number of tons) gives 4l. 17s. (real price) + 2l. 15s. (returning charges), makes the nominal price 7l. 12s. Then, say, if 6\(\frac{1}{2}\): 7l. 12s. 100: 121l. 12s., the standard sought.

If any of your correspondents can give me a more easy and expeditious way, thereigh the medium of your paper, they will much oblice.

If any of your correspondents can give me a more easy and expedition way, through the medium of your paper, they will much oblige Hewell Suby, Jan. 8.

SAUL PINING.

MINING CORRESPONDENCE.

ENGLISH MINES.

ENGLISH MINES.

HOLMBURH MINING COMPANY.

Jan. 10.—I beg leave to inform you that the lode in the 110 fathom level west is about ten inches wide, and worth 9f, per fathom; in the cross-cut, towards the north lode, the ground continues hard. The lode in the 100 fathom level west is about fourteen inches wide, and worth 16f, per fathom; in this level, cast of Wall's shaft, no alteration since last reported. The lode in the eastern stopes, in the back of the 100 fathom level, is eighteen inches wide, and worth 30f, per fathom. The lode in the western stopes, in the back of ditto, is twenty inches wide, and worth 34f, per fathom. In the ninety fathom level west the lode is eighteen inches wide, and worth 20f, per fathom; the lode is the eastern stopes, in the back of this level, is about sixteen inches wide, and worth 30f, per fathom; the lode is the western stopes, in the back of ditto, is two feet wide, and worth 34f, per fathom. In the eighty fathom level, cast of Wall's shaft, the lode is sixteen inches wide, producing stones of ore; the lode in the stopes, in the back of this level, is two feet wide, and worth 42f, per fathom. In the seventy fathom level the lode is about one foot wide, and worth 12f, per fathom. In the seventy fathom level, on the Flapjack lode, no lode taken down since last reported. The lode in the sixty-two fathom level, cast of Wall's shaft, is about one foot wide, producing good stones of ore.. The tribute pitches, on the whole, continue to look well.

TRETOL MUSING COMPANY.

To low The lock is the thirty fathom level, earl of Williams's shaft, in

about one foot wide, producing good stones of ore... The trivate pitches, on the whole, continue to look well.

YARTOIL MINING COMPANY.

Jun. 10.—The lode is the thirty fathous level, cast of Williams's shaft, is two and a half feet wide, very good tribute ground for copper; about three fathous driven last mooth, much the same. We have just began to drive east and west on Tregelian's lode, at the thirty fathous level; the lode in the west end is two free, wide, and in the east end three feet wide; each end is producing some good ore. We are driving an end five feet wide; each end is producing some good ore. We are driving an end five feet wide in the Minepark lode, east of Morcoom's shaft, at the sailt level—it is good tribute ground for tin; foor and a half fathous driven last wooth, much the same. We are carrying a rise about eight feet wide in the hole in the back of this level—it is very good tribute ground for tin; two fathous rises last mooth, which are very good. We have snapsaded the seventeen fathous level west, not having sufficient air to drive both ends until we hole the rise going up from the thirty-two, or said level; driven west last mooth about four fathous, east these and a half fathous, all of which are very good tribute ground for tin.

H. Williams. J. Morcoom.

H. WILLIAMS. J. MORCOM.

Jan. 10.—I am gind to be able to inform you that the lade in the forty fathom lovel out is at present three feet wide (the corey part), producing black and govy ore, worth 151, per fathom. In extending the cross-cut worth, at this level, we have discovered another small branch underlaying north, containing yellow ore, but we have not yet reached either of the index in this direction; the ground in the present end is not quite so favourable for civing as it has been. We have notline our to receive the containing the

Jon. s.—Williams's Engine-shaft—Lode three and a half feet wide, with ones of one. Sixty Fathom Level, east of Williams's—Lode finer feet wide, phtron inches on the north part one. Sixty Fathom Level, west of Williams's—Lode four and a half feet wide, oney throughout, but emarie in quarter of the control of the control

make up for the deficiency.

PRELIMON CONSOLS MINING COMPANY.

Jun. S.—We have now evercome the vacess of water and resumed operations in the bottom levels. The seventy west has the appearance of a lode, with atoms of one; this level such is rather hard, and a little allered. The sixty west is improved, the lode four feet wide, and worth 25% per fathom. The fifty west in tree feet wide, and worth 35% per fathom. The tributers is the fifty east are doing well. The old sump-shaft is sinking in favourable ground, and is sinking eight or ten feet we shall clear the lode nader the side. At Good Portone the lode is the shaft and in the forty-four east is unalitered. The ferty-four most is large, and worth 12% per fathom.

W. SINCOCK.

W. SINCOCK.

TAMAR SILVER-READ MINING COMPANY.

Jan. 10.—In the 125 fathom level the ground-still continues unfavourable for driving, and the lode at present it small, yet it is not without some ore in it. In the 126 fathom level we are at present driving through ground that is intersected with side courses, which is unproductive of ore. In the 136 end the lode is eighteen inches wide, producing ores in a soft spar, but not rich. In the ninety five fathom level the lode is six inches in width—poor. In the eighty-five fathom level the lode is two feet hig, carrying branches of ore. In the overaty-five end the lode is somewhat more promising; it is from two to three feet wide, yielding some good work. In the sixty-five fathom level the lode is eighteen inches wide, intersected with rich branches of silver-head ore. In the twenty-three fathom level, driving ourth, the lode is small and approductive. In the tribute department the mea continue to work well, and their prospects, on the whole, are favourable.

TINCROFT MINING COMPANY.

partment the men continue to work well, and their prospects, on the whole, are favourable.

Tinchoff mining company.

Jan. 11.—I beg to say, by say of report, that we have still a large and very promising lode in the new engine-shaft, sinking under the forty fathom level, which appears to be improving as we sink; the shaft is now between two and three feet under the aforesaid level. The forty fathom level east (which is now beyond the cross-set to say the shaft is now between two and three feet under the aforesaid level. The forty fathom level east (which is now beyond the cross-set to say the promising appearance; the lode is about tweety inches wide, aine inches on the north part rich copper ore. The lode in same level west is at present in a disordered state, and although not without ore may be considered poor, but I expect it will improve as we get further off from the cross-course. The lode is large in the thirty fathom level west, with stones offere, but not rich. We continue to work regular at Palmer's, but our progress is slow, the ground being still hard. With respect to the old mins, I am gind in say the water is being drained an deep as the 140, and I expect will be drained to the bottom by Thursday next; one men, both tributers and tutworkmen, are taking their places as the water goes down. There is nothing to report upon below the 120, the end at that level is at present hard and poor, and is likely to continue so for some two or three fathoms, judging from the groundless passed through in the level above. The 110 cent cast is improving for the, and very promising; I can speak of an other improvement at present. The wisse, slaking under the fifty-eight fathom ivel, continues to yield excellent thatuif, worth from 301, to 406, per fathom is I expect this winze will be commaniented with the seventy-two in the course of the present mosth, after which the ground east and west of the winze will be at a tow tribute. I beg to refer you to our setting report for the state of our tribute department.

WEST WHEAL JEWEL MINING ASSOCIATION.

Jon. 10.—The Seventy Crous-cut, south of Buskingham's Engine-shaft—
Ground more favourable than last reported. The Seventy East, on the
South Branch—Lode not taken down since our last. The Fifty-seven East,
on the South Branch—Lode worth 121, per fathom. The fifty-seven east,
on the South Branch—Lode worth 121, per fathom. The thirty, west of Hodge's
cross-course, on Toleanse tis lade, is worth 51, per fathom. Our tributers
are working vigorously, and we hope they are getting wages.

S. Lean.

MINE ACCIDENTS.

MINE ACCIDENTS,

Orwaldtwistle.—On Thursday week, as T. Edieston, a drawer in a conimine, worked by Messra. Simpson and Rostron, was being let down by a
whimsey into the mine to his work, the rope slipped off about a yard; the
basket by that means going down suddenly, shook the deceased out, who fell
to the bottom, about twenty-five yards. When taken up he was insensible,
and died in about ten minutes. Part of a shield, which was fixed to the
whimsey to keep on the rope, had by some means been broken off, which the
overlooker had instructed the carpenter to repair, but which he had neglected to do. This seemed to be the cause of the rope slipping, it being wet

PROCEEDINGS OF PUBLIC COMPANIES.

MINING COMPANY OF IRELAND.

The half-yearly meeting of the above company was held at the com any's office, Lower Ormood-quay, Dublin, on Thursday, the 6th inst. Isaac English, Esq., in the chair.

Mr. RICHARD PURDY (the secretary) read the requisition conv the meeting, the minutes of the last day's proceedings, and the folio report of the directors to the shareholders to lat Documber:—

The returns from the company's works in the past half-year are squal to beard's expectation, yielding profit amounting to 10,760f. in. 11d. Of the thus realised, there has been expended in imprevenences for the further cate of the company's works, principally at the Konchandon Copper Misson as Nievardagh Collicties, the sum of \$44.7f. 11s. 11d., which leaves a not are explicated amounting to \$17,000. In the half-year. The columnar's decaying consists of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of each and will be a feet of the constant of the constant of each and will be a feet of the constant of the constan

Mr. Ginnon had not been present at the company's meetings for some time, and, therefore, he would take the liberty of treespassing on the patients of the meeting for a short period. He thought the dividends are prefits of the company should be kept under separate heads, in order to red it he dividends were paid out of the net profits or not.—The Guain was sealt they were under separate heads, and that every satisfacting could be given on that point.—Mr. Ginnow said he must protest against having the profits inerged late the accounts; it appeared the company was never in a more prospersors state than at present, and the proprietor ought to get the henefit of that. At the close of 1839 it was resolved 6 apply the profits of the company in exploring new improvements, and he called the attention of the enceting to those facts, because, when landlord and presprietors of property in which the company had invested their opital, found them paying 15 per cent., and the shares conting only 11 they (the landlords) would demand a higher rate of rent, dec.; and whe he wanted was to separate the dividend account from the accounts of profits belonging to the company. He saw a sum of 1439/2.6. 9d. charges as paid on the Audley roysities, and this sum was paid; with the ideas receivering half of them to the company.—Mr. Puzuv said that the proceedings alluded to were instituted in order to recover the account from Lord Audley on a mortgage due to the company on as good property and any in freshand, and that more than one half of the costs would revert to company.—Mr. Tilly said the proceedings were instituted for the aber purpose; bat, in consequence of the presons oraning in with a decree, the company had stayed the proceedings, as they could come in under the decree against the property, and therefore would be saved considerable additional expense on this point.

Mr. Ginnow thought the purchasing of ships by the company are unprofitable speculation, because, after landing their cargoes at the other sides of the case of the co

LONDON JOINT-STOCK BANK.

LONDON JOINT-STOCK BANK.

The half-yearly general meeting of the shareholders of this company took place at the offices, is Princes street, Bank, on Wednesday, the 12th inst., and was well attended. From the report it appeared that the paid-up capital now is 599,7001, and that the directors have thought it advisable to complete the issue of the whole 60,000 shares, the remaining 100n of which were to be sold in the market. The accounts showed a not profit on the half-year, ending the 31st of December, of 35,0131, 14s. 34., from which a dividend for the half-year, after the rate of 61, per cent. per annum, was re-commended, which would amount to 17,001 f.—iraving 83331, 14s. 34. tolic carried to the profit of the guarantee had, which now amounts to 1,731f. 1s. 36. The report was adopted, and the four directors, who retired, were re-cleated, and John Timothy Oxivy, Eng. (recommended by the directors) was closted a director in the place of Sir Francis Palgrave, resigned.

BRITISH COLONIAL BANK AND LOAN COMPANY.

BRITISH COLONIAL BANK AND LOAN COMPANY.

A special meeting of the shareholders of this company, whose operations appear to be most particularly directed to the Australian colonies, was held on Weinesday, the 12th inst., for the purpose of submitting to the shareholders a statument of their affairs, and was more auticusly looked forward to, as it was caturally supposed the question would be agitated of the inflax of early certificates of the company from Sydney, &c., as remittances by merchants and others to their connections here, which has cuded in the disappointment of so many persons, agithe certificates have been unable to command a price in the London money market, aithough the representations in the colony were that they would be negotiable at a promine. The affairs of the colingway, municipred in a pecuniary point of view, are not in a favourable position; for, in the first place, they commenced business with a limited capital, and in the next, the great failing off in the payment of the respective calls upon the shares restricted their means. It was evidently the desire of the major part of the extributions who assembled, fluding how unstreastood to wind up the concern with as little dolay as possible. The representatives of the hobiers of the certificates were much inclined to lean with favour to the company, though so in the least showing a desire to almadous their claim to a redemption at par, declaring that they should hold themselves hound to institute such proceedings as would open a course for the decision of the question between them and the company, is the avout of a refusal of the responsibilities which they feared were hanging over them, by a junction of the color they are a successive proper, they might relieve the shoreholders and themselves from the responsibilities which they feared were hanging over them, by a junction of the colors of certificates; but in dealing with those it must be resolitate about the security required by the holders of certificates; but in dealing with those it mus

BOROUGH OF MARYLEBONE BANK.

an adjourned meeting of the shareholders of the above banday, the lith but. (Mr. Pancala is the chair), after reservences from Mr. Abrahams (the chairman of the committee), acted that Mr. Hanany's effects would yield 20s. In the promisers carried unanimously agreeing that the trustees of the delen-wis, Messen, Dankes, Robinson, Jackson, and James Christian of Mr. Basser, Robinson, Jackson, and James Christian of Robinson, and Ro

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MONEY MARKET AND CITY NEWS.

CURRENT PRICES OF ENGLISH AND POREIGN FUNDS

Batt AND FOREIGN FUNDS.

Daniels, 5 per Cent., 61 §
Dutch, 5 per Cent., 62 §
Bitts, 5 per Cent., 104 §
Portageous, 5 per Cent., 104 §
Rossion, 6 per Cent., 19 §
Rossion, 6 per Cent., 114 §
Sancish, Actives, 5 per cent., 24 §
Colombian, 5 per Cent., 214 2
Mexican, 5 per Cent., 29 §

REMARES ON THE OPERATIONS OF THE WEEK.

REMARRS ON THE OPERATIONS OF THE WERK.

RATURDAY, Jaw &.—The public funds were clearly throw along the day, the cash attention being a rice in the value of Exchanger bills, which the off at 20s. to 20s. pm., Console science, for Money and the Account, for to \$1 a per Cents. Reduced, 601, India Bondo, 66. to 10s. pm., Bank 2008. § \$2 to \$6. To \$7 a per Cents. Reduced, 601, India Bondo, 66. to 10s. pm., Bank 2008. § \$2 to \$6. To \$7 a per Cents. Reduced, 601, India Bondo, 66. to 10s. pm., Bank 2008. § \$10 s.—Very few largeant large of at 100 to \$1. To

MONDAY.—The English intensy market experienced grouper fluctuations to-day has has encoursed for some time past; Commits expende opened at this to £, but almost temperature for some time past; Commits expende at this to £, but almost temperature was not exceeded from large sales of storic (150 or 500,500), being efficiently the Government broker, to supply the deficiency in the late funding; however is amic parchases being unbecquently mode, the market railled, and, at the close of laminans. The quantation was mig, both for movey and the attended, and, at the close observation of the move of the committee of the condition of the control of the committee of the condition of the committee of the

attentions there place in prices.—Cother Copper Mining Company, \$\hat{n}\$; \$\text{Ren}\$ del Monte, unregistered, \$\hat{n}\$.—Australacian Bank, \$\hat{n}\$\$; \$\hat{n}\$. TUEBDAY.—The operations is the English funds, on the part of the Government broker, were constitued to day, and sales made to a considerable catent, which, or coverns, occased money to be scarce and prives \$\hat{n}\$; the early part of the day money was to be had for \$\hat{n}\$ per cent., but forwards the close \$\hat{n}\$ per cent. was the current price. Consode were underscarshly affected to the extend of \$\hat{n}\$ per cent. Was the current price. Consode were underscarshly affected to the extend of \$\hat{n}\$ per cent. Was the current price. Consode were underscarshly affected to the extend of \$\hat{n}\$ per cent. Was the close \$\hat{n}\$ per cent. Was the \$\hat{n}\$ per cent. Was the close \$\hat{n}\$ per cent. Was the c

had gold is a to per cent, descript in London there in Hamburgh.

WEDNERDAY —The Ringlish acception were still further depressed by the consistence of the Convergences by-key, who, it is easily sold about you, week, business of the continued near the continued operations of the Convergences by-key, who, it is easily ord about you, week, business for the certainsty periods of seconomonolations have by lessoned to 4 per cent, the rates for the ordinary periods of seconomonolations have by lessoned to 4 per cent, there were no other large resonantions, but the Chancery broker was a small buyer in the course of the day, beautiful the contract of the contract of the contract of the day of the contract of

remerable fellipsenses on brivings attacks, mount of which were brown - 1 no maker spaints was obsoidly, with a monderplate measured of breshesses desired, but no alteration trock place in prices, or Canadad Banks, 19 xx div.

THUCKINA Y.—The Gloverenmonal breshes continued his calou of Monte, for account of the Treature, so day, to the extend of about 500,000. Concode; the rate accepted was mit, but the market butter from, one come placed for the effect of the operations was that temperary, and before the termination of bontaness prices recovered to not be it in the search of demand cheerly, and the form the acceptance for the settlemental progresses maintained using your progresses maintained using your was worth 15 to 14 per conet. Bank flocks was lost quested 16th to 1d 2, India thank, 1cd to 1d 2. Rechespoor Bible, 1ca, to 1 to, 1 to, pp. . Three per Court, Rechespoor Bible, 1ca, to 1 to, 1 to, pp. . Three per Court, Rechespoor Bible, 1ca, to 1 to, 1 to, pp. . Three per Court, Rechespoor Bible, 1ca, to 1 to, 1 to, pp. . Three per Court, Rechespoor Bible, 1ca, to 1 to, 1

AMERICADA, Jaw. 11. - Actual Dubt, 25 per Conto., 114 to \$1 5 per Cross., 270, 1500, America Branch, 270 or Cross., 270, 1500, America Branch, 270 or Cross., 270, 1500, America Companier, 41 per Cross., 150 to \$1, Loss., 1607, 5 per Cross., 177 to 8. contents on London, 17 To 22, two months, 12, ditto on Hamburgh, 50 to 7. log in months, 50 47 7.10.

#81*80\$1.6, Jan 7 -- Actual Dubs, 3) per Conto, 83%; Notherbild's Loun, 50%; and, 50%; Notherbild's Loun, 50%; and, 50%; 1040, 105%; Bank of Belgines, 70%

Bankhti Stiss, Jan. 6—American I per Cracks., 107 \$ hits., 107 seemery, Donksters, role momery; Stocksters, role for the momery of the stocksters, role for the momentum of the momentum of the momentum of the form of the stocksters, role for the momentum of the form of the f

VIENNA, Jan. 4,-d per Cuata, telly, 4 per Conto, 194; Bank Shares, 1825.

PINECHIEL Wannaman. Edinburgh and Classers Salivar, 4'f., Daker Salabungh, St., Mangare and Circumes, 25t., Chaques and Christick, In-spect and Astablia, 2cf., Winhow and Calinom, 40f., Dander and Afternal , Afternal and Forms, 2ff.

And the Total through Securities, red. to cent., there must be refer, use, to all, a broad method and the securities and the securities. It is to total a total and the securities and the securities. It is to total a total and the securities are the securities. It is to total a total and the securities and the securities are the securities. It is to total and the securities are the securities are the securities are the securities and the securities are the securitie

BRISTOL, Furnay.—Our market continues dull and inactive, and prices low-tion my last—Great Western Railway, 86. to 67.; baives, 46. to 644.; 461 191. to 101.; Bristal and Kreter, 254.; Bristal and Generator, 54., Birmingham as Generator, 641. to 561.; Chettenbam Union, 744. to 1841.; Taff Vale, 564. to 701. Bristol Gen Company, 831.; Chifton, 231. to 241.

BALE OF COYPAR ORES IN CORNWALL pled Dec. 29, and sold at Andrew's Hatel, Redrath, Jan. 13.

Mines.	Ton	s.	23	Pric	ø.	Purchasers.	Mines.	Tons.	1	Prin	e.,	Purchasers.
Torwaras	100		43		6.	Virians.	St. Andrew	27	24	2		Vivians.
litto	181	**	4	2	6.	MANAGEM .	ditto	2	- 4	2	8.	Freemans.
ditto	91		4	9	0	-	ditto	51 .	2		6.	Vivians.
6000	70	**		10	6.	Williams.	ditto	I6	4	1.0	6.	P. Grenfella.
ditto	61	**		18	6.	Nevill & Co.	ditto -	16	- 4	18		Williams.
Former C.	63		- 6		6	Williams.	Wh. Buller	el	. 4		4.	Freewans.
4880	25					Freemans.	ditto	76	. 4			Manage
ditto	24		. 4	- 4	8	Williams.	Providence	178 .	4	. 6	6.	Williams.
Prionstable.	24		4	14	W.,	Nevill & Co.	ditto	80	A	31	8	Viviana.
ditto	44		- 5		#.	Williams.	Wh. Spend	60	- 4	14	0.	Williams.
ditta !	75	C.	2	12	6 .	Freemans.	ditte	72	3	10	B.,	- MARCONET
Wh. Prospe	er 41					Nevill & Co.	Relietion .	194.	- 6	- 6	Ø.,	Freemans.
Allto	41	**	- 2		6	Virians.	ditto	186	: 6		B.,	Williams.
Levant	.73		18	LL	4.	Messee	ditto	6	. 9.	16	Be.	-
alitim	60		-		6.	Williams.	Wh. Busy.	. 35	4	. 0	B	Series A
ditta	23	- 4	7	188	6.	Freemans.	Botultack .	. 186	14	8		Freemans.
distra	24			-		The second of the	ditto	154	14		a.	Viviane.
St. Ambrew	1 52			18	4.	-	Gramblar.		5	6	6	Williams.
0 /1 /1	177					TOTAL P	sopucs.	6 Minut		111	41	to Carmilla Wiles

Trowaras 451 2339 16 9
Frowar Consols 532 1616 11 6
Wh. Friendship 729 1885 8 6
Lavant 270 1946 4 8
Wh. St. Andrew 194 218 4 0
Wh. St. Andrew 194 218 4 0

Average standard, 1256, bs.—Average produce, ?.— montify of ore, 1708 tona.—Quantity of fine copper, 1; coner. 10,606f. 4s. 6d.—Average standard of last sai ie, 1254. Sa .- Average p toce, 71.

	Tues.	Am			
Viving and Sons	54014	 #2401	10		
Fremman and Co	448	 2048	19		
F. Grenfell and Sont	16		16		
Sime, Willyams, Neville, Druce, and Co	127	 1100	. 1		
Williams, Foster, and Co	5724	 3 67	17	4	ī
A STATE OF THE PERSON NAMED IN COLUMN TO A STATE OF THE PERSON NAMED IN COLUMN TO STATE OF THE P	montex	-		weeks	

Sampled Dec. 32, and sold on the 19th January.

Mink	Tong		Footsea	Board		Fring		Miner	Trees		Perform	Stood.	Perio	
Colors	11a		134 -	161	.11	10	-	Cohre						
ditte	116		124 .	tong.	. 11	7	-	diffic	79		214	Foo 19	4	- 6
ditto	-11 6	2.0	104 -	. Toda.	. 89	1.0		ditto	44		214	Low 10		-
ditto.	40	+8	224	. 36	. 19	1.8		ditto	60	84	22 w.	mg. 19	14	4
ditto.	70		124	1/18	. 11	13.	. 8	ditto,	41		224 N.	974. 19	18	6
43850	168		14	1604.	. 13	1	4	Chill	196	88	194 V.	1002 17	. 2	4
selfto.	140	74	14	1000	. 19	8		ditto	96		166 V.	190016	116	6
dittes.	180	8	14	1024.	. 12	1		ditto	90	16	10g w.	14014	7	-
dates	con Mr		224 w	Brg	19	14	-81	Allibics	165	8.0	10/	1:78	19	-
- ditto.	500	18	124	160.2	. 29	14	.6	ditto	21.			120 3		-
distan,		4.0	126 0	164	16	12		Lacksmore	54	2.6	Na	128 . A	18	4
4830	100	4.8	124	1044	18	15.	6	Copingo	388	1.8	34.5.	57 .30	16	0
diffe	11. 68	vi.	124	1651	11	-1		Tigrouy	24	8.0	9	1224 8	13	
	97							Cronchase.,	49			1204 7	12	
ditte.	56		204 .	904	10			tilo'stershire	10	1.6	11	1134 10		
ditto	*** 52		204	ide .	18		46	A MUNICIPAL PROPERTY.						7

1	married of the land.	. 200 00 00		** A			- 1
ì.	to a of month	CALMER		FRODUCE.			- 1
1	Cobrect street	1541 4	72273 M	6 / Copispo.	St #1174	4	
U	This	. 100	. C'08 W	a Tigrouy	28 176		
н	Alliant	10 Tag	1349 15	@ Cronrhane	13 70		
п	Lackstoore		. AMD 18	* Ginacontarshire	10 102	10	0.1
		Wanted Amore	7154 - T-	ALT DESCRIPTION AND THE			- 1

COMPANIES BY WHOM THE ORES WERE PURCHASED.

English Copper Company	** 402		C12 A	4	
Processed and Character and account of the	68	STREET S	E) 063		
Creutell and Sout	349		5000 I		
Stone, Willyams, Naville, Bruce, and Cu	834		2007 11		
Visian and home accompanions are	. 663		MEET 14		
Williams, France, and Co	5474		PROF. B		
Misses Rugal Company		** ****	836 18		
The state of the s	Secretoring:	dies	CONTROL MENTE	and a	
Wastel .	90.04	40.44	With a	-	

Copper over for sale January 28.—Coher 105, ditto 15, ditto 10, ditto 15, ditto 15, ditto 15, ditto 17, ditto 7 — Knowkwahou 170, ditto 17, ditto 17, ditto 17, ditto 18, ditto

SALE OF BLACK TIN,

By Ticket, on the 11th of January, of Pensance

Mines.		Price		Amoun	ut. Porchaurra.
Ballerwidten sent		# 43 T		#TONE DO	9 Williams and Co
WHEN THE PARTY	. 54	48 7	d.	288 58	9 Builthon and Co.
40000	. 20 14 44	41 10	Care and	W. 10	e., dista.
dens services		W. 840	B	700E B	F Williams and Co
4800 (111111)	A Carres	47 12	&	35 14	4) L.C.A.W. Dambur
#8550 *********	Louis	47 12	Corner s he	78 14	44 Williams and Co

Particulars of copper ores sold in Curnwall, in the quarter ending December 31.— topper oven, 31,510 [1] cwts.—Pine Cupper, 2007 hour 15 cwts.—Assessed shorey, 50,7771. [15] eds.—Average standard, 1275. [6.—Average produce, 74.—Average slice per 21 cwt., 55, 56, ad.

CORNIGOS STRAM ENGINES.—MARASION, JANUARY II.—The number of pump-ing-origines reported this minch is facty dive. They have consumed 45to inns of coals, and lifted 42,000,000 tools of water to fallows high. The average date of the whose is, therefore, 44,000,000 the lifted one first high by the consumption of a bushel of coal.

AR RESPECTED AT THE PRINCIPAL MINES IN THE POLLOWING MONTHS.

Character from per over.

So 14 7 A 5 From wires never, each 2a bit 2a b

				ωá		TR	101	w	8101	F 166	B .F	10.6							
	500	81	G ni	in	eise.		٠,	15.00	refer	g-monor	Box		Elle	Cross-	-	54	in Re	-	
ø	-	General	29	160	100	1.59	(All	199	364,255	Member	10	-	96	100	(MR 1	M.M	90	298	ä¥
ř										Territal									
b.		sucks.	26	×	96	. 86	Jid	140	50.00	- Cydnes	. 62	-	10	1.0	34	00.00	w	286	äs

Water Committee Land Control of the	A larger afternion harm I Amount and Amount
laon, EngBarina 6 8 0 to 7 6	6 Corren-foreign (dy. 27s.) -
Do. Carg.in Wales 6 8	9 1 co. HeltBlocks
House for 9 0	Bars 40. 4 9
Sheets, for 10 0	Banca 0 0 0 to 3 13
Fig. No. 1 (pa 5 0	
Do. in Waies 4 6	Straits 0 0 0 to 3 10
Pareign- (Swoden, on, &d. for 18 10	Tin Plates-s.c. (bea) 10 0 to 1 12
	1.x. 60, .1 16 0 to 1 16
Russian cons for 14 16	Others a proportion, Made
Buty 30e. F.F.L fon 15 19	Luan, BritPig ten N
per ton. C.C.K.B. fon 18 10 1	Sheet Asa. To 4
Wrans, Eng. Blistered, 25 6 6 to 45 9 (Shot fox 22 0
Shear do. do. 45 9 0 84 0	Red fue 21 0
Cast do. do. 45 0 0 84 0 4	White (dry)., den 26 6
Poreign- (Sweden in kgs hd ton 19 10	Do. (rd.moil) for 24/ a 2
Duty 20 (Do. Faggots &d. Jon 20 10	Foreign-Span. (dy. 40a.) . 29 8
per cont. Milan bd. fun 6 0	
Coreun, Brit Cake low 90 0 0	BPELTES 0 0 0to 20 0
Tile 40, 26 6	For delivery 0 0 6 to 28 0
Wheele IA A A I'l	English Sheets ,471. to 49 6

MONDAY.—Price of coals per too at the close of the market:—Buddle's We Hartisy, 17 6—Taylor's Hartisy, 17—West Hartisy, 18—Wylam 16 6—Wall's Ex-Cennell 17—Newmarch 18—Rassell's Hetton 22 19—Rewart's 23—Tonnant's Hattopool 21 6—Biyth 18 6—Cowpen 17.—Ships arrived, 8.

WEDNESDAY.—Holywell Main 17—Original Windoor's Postop 17 3—W. Hartisy 18—Wall's End Bewick and Co. 21 6—Brown's 18—Hediey 19 6—Hibds 18 6
Rillingworth 19—Hetton 22—Lambton 21 9—Shinciffer 21 9—Casop 22 3—Rarington Tees 17—Evenwood 18—Biyth 15 6—Cowpen 17 6.—Shipa arrived, 6.

FRIDAY.—Holywell Main 17—Original Windoor's Postop 17 3—Townley 13 6
Wall's End Hediey 19 6—Hibds 18—Hotspur 17 6—Northumberland 17 9—Bradyil's Hetton 22—Hetton 21 9—Lambton 21 9—Rassell's Hetton 21 9—Stewart's 23—Casop 22 3—Kelice 22—Administer 21 6—Biythe 15 6—Shipa arrived, 3.

PRICES OF MINING SHARES.

STREET, BRITISH MINES, Paul.	Price Shares, BRITISH MINES, Paid, Price
400 Anglessy	
4,000 Bissoe Bridge	4,300 Tretoil
10,000 British from 60	. todie 1,000 Trevidgia A
6,000 Blacmavon 45 .	. 20 Trevinkey and Barrier 146
129 Brewer	. 100 96 Tresavean
79 Hudnick	. 100 120 Trethellan
1,000 Carn Brea	The state of the s
100 Copper Bottom 41 .	. 30 6,000 Wicklow County
2,660 Cornulian Lead Co 2	2 3,845 West Wheat Jewel 41
6,000 Cornwall Great United 104.	. t 1,000 Wheal Julia de
Cuddra 10	4 I'm Whoni Kitte
512 Cook's Kitchen	FOREIGN MINES.
112 Charlestown	. 100
5,000 Dartmoor Consols	
10,000 DurhamCountyCoulCo. 27 .	. 9 119,000 Augio Mexican Co 160 4
2,400 Daneacombe	
6,000 De Dunstanville	1,000 Holanos
1,000 Duffield 30	li Ditto Scrip 15 44
1,200 East Muiberry Hills 54	
many manage a many - contribution of the con-	
3,200 Great Wh. Prosper 74	1 10,000 Ditto Scrip 10 . 2
4,030 Great Wh. Prosper 74.	
10,000 Hibernian 124	
1,000 Holmbash 14	
2,000 late of Sara (Guernary)	
6,000 Polareca 4.	
3,600 Polheron Consola 19 .	1 2,000 Mocambas and Cornes 25 44
3,000 Heilstian	
	14,5e2 Real del Monte, regia, 484. 24
10,000 Shymacy Iron	
100 Rosewall Hill 180	170 7,000 Boyal Santing 0 10 . 18
	1 11,000 st. John d'el Rey 144. 24
4,000 Tregellan 44	2 50,000 United Mexican 40 1
4,600 Trateigh Consols 41.	8 Black Serty, addi. capital 3 2
4,505 Tamar Consols 8	7 Red New Scrip 5 3
	The same wells server & se &

RAILWAY SHARE LIST AND TRAFFIC RETURNS

Line	Entire Leth.	Now Open.				Last week's Returns.
Arbroath and Forfur Ballmay	15	18	d. 101,645	- 25	22	419 11 46
Birmingham & Dorby June.	46	386	806,044	100	48.74	Comment of the last
Stroningham and Gloucester	324	Al .	1,013,723	100	844	130E A #
Brandling Junction	25	23	487,494	45	1000	729 1 73
Chester and Birkenhead	149	146	456,464	40	25	400 0 3
Dubliu and Kingstown	100	- 6	335,560	100	774	627 15 3
Dunder and Arbreath	144	140	134,984	26	25	1
Eastern Counties*	1264	174	1,426,120	23	9 60	- 874 In A
lingur and Aff	.Al	40	400,545	40	44	1044 2 14
Slangow and Painley Joint	275	225	260,000	724	26	243 6 4
ld. June, & Chester & Crewo	1152	1114	2,191,047	100	191 96	dide ta S
ireat North of England	75	45	1,600,600	900	604	
ireat Western	110	118	5.246,644	65	2 44	MATE - A 20
full and fiethy	41	81	454,044	54	555	B25 7 4
ancaster & Preston June.	2043	204	364,500	414	124	440 4 14
iverpool and Manchester	31	31	LATO, DOS	Tona	4100	A.05 % A
conden and Birmingham	1124	\$128 T	8,714,987		163 4	1987 7 41
ondon and illack wall	88	24	MIZ ,000 1	754	15.71	Boll 10 8
condon and Brighton 1	100	-	Value And	17500	35.54	11147 13 10
Hitto Mhorebass Stranch /	34	54	2,496,538	30	N & A	- 12 2
conduct and Crosslop	104	104	847,000	19	12.112	200
onden and Greenwich	- 54	- 34	2 MIL 2010	70	-	731 11 #
condon and Booth Western	95	27	2,386,517	144	44. 4	2422 19 44
Enochoster, Bulbon, & Bury	10	10	779 Sun	200	7	701 3 300
fanchuster & Strmingham	4		1,195,512	40	70.0	121 12 120
East-houser and Levels	340	50	7.525.100	796	1 700	100
fidland Counties	47	42	LAME CON	100		20044 52 4
ewonello and Cartisle	664	-	750,000	144	-	1000 13 W
Corthern and Eastern?	824	154	254.912	44	NA 4	812 E 43
meth Midland	754	294	2,000,007		2.1	110
orth Culouf	1	35	2/20,7980	24	-	1112 15 45
realms and Wyre	194	204	270,000	100	100	1100 10 6
hofficial and Manchester	-	-	We of sec.	-	80	107 11 3
Mer	44	-	-	224	200	BOL 19 P
ork and North Midland	-	-	299,245	200	- C	100 10 10

corongrim street.—J. Geodwin, Ethiop's Streetler, todays, Messar, Pry. Legitry, and Pry. Chrospalin.—London bridge, draper schetter, Nr. Bulloy, S. Barris, and L. W. Bulloy, S. Barris, and S. Barris, and S. Barris, and J. Barris, and J. Barris, and J. Barris, and Thorness, White Hast-poset, Ervicosky, Kent, Rosenberger solicities. Messar, S. Nicholds, Adam's source, Engravan-Ingd. Brew. Geodwine and Flower, Paradraft Inn.—J. F. St. Martin, S. Michaele, and S. M. Sander, Merchant solicitiers, Mouras, Hine and S. A. Strucken, Fricky, street, Chengolds, worethness Lines of trad.—B. B. and J. W. Smith, Alton, State and Martin, Mr. Chapfin, Gray's Tan. appear.—S. Tucker and St. Chapfin, Gray's Tan. appear and Stebassas.

[Clinically voiding Liandshop, Messar, Martin, M